ORDEN No. PMX1111005CS

Manual de Servicio

Televisor de LCD

TC-L32C4X HD Serie C4 120V ATSC/NTSC
TC-L32C4Y HD Serie C4 220V NTSC

Chasis KM10V



Este Manual de Servicio se edita para guía de mantenimiento a los equipos de Televisión de la familia C4, MODELOS 2011 mencionados en esta portada. Así mismo se incluyen diagramas eléctricos y de bloques con sus respectivos procedimientos de ajuste y la lista de materiales para su referencia.

Panasonic

⚠ ADVERTENCIA

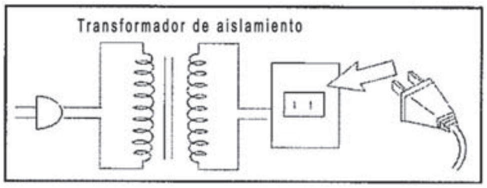
Este manual de servicio solo esta diseñado para técnicos en reparación con experiencia y no para el público en general. No contiene advertencias ó precauciones sobre los peligros al dar mantenimiento por personas que no estén familiarizadas en esta área. El mantenimiento ó reparación de productos que funcionen con electricidad deben ser realizadas por personas con experiencia. Cualquier intento de reparar ó dar mantenimiento a los aparatos descritos en este manual por personas sin experiencia puede causar lesiones serias ó incluso hasta la muerte.

CONTENIDO

1 Precauciones de Seguridad

1.1 Guía General

1. Es aconsejable conectar un transformador de aislamiento en el suministro AC antes de reparar un chasis dañado.

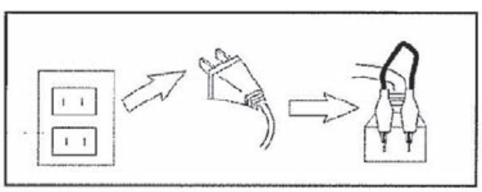


2. Cuando se de servicio, inspeccione el recubrimiento original de los cables, especialmente en los circuitos de alta tensión. Si se localiza un corto circuito, reemplace todas las partes dañadas (incluyendo aquellas que muestran señales de sobre calentamiento).
3. Después de la reparación, observe que todos los dispositivos de protección como son papel de fibra aislante, resistores y capacitores de aislamiento, así como los blindajes estén correctamente instalados.
4. Cuando el Receptor no sea usado por largos periodos de tiempo, desconecte el cable AC del toma de corriente.

   Después de reparar el modelo deberá realizar una prueba minuciosa de la unidad, con el fin de asegurarse de que su manejo sea seguro.

1.2 Verificación de filtración de corriente fría

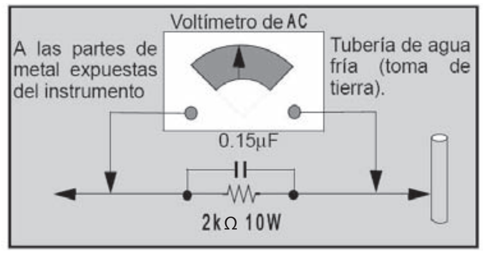
1. Desconecte el cable de suministro AC y conecte un puente (jumper) entre las dos terminales del conector.



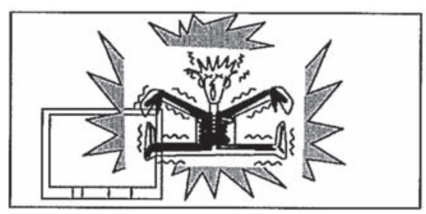
2. Encienda el interruptor de potencia del receptor.
3. Mida la resistencia entre el conector puenteando y las partes metálicas expuestas como son cabezas de tornillos, terminales de antena, etc. Si la parte metálica expuesta tiene un retorno al chasis, la lectura deberá oscilar entre 100MΩ . Si la parte metálica expuesta no tiene un retorno al chasis la lectura deberá ser infinita.

1.3 Verificación de filtración de corriente caliente

1. Conecte el cable de AC directamente al toma corriente. No utilice el transformador de aislamiento durante la revisión.
2. Conecte una resistencia a 2 k Ω 10 watts con una parte metálica expuesta en el receptor y un tubo de tierra.
3. Utilice un multimetro digital con mayor tipo de impedancia para medir el voltaje de AC a través del resistor.
4. Verifique que cada parte metálica expuesta no exceda del voltaje para medir cada punto.



5. Revise el cable de AC de la toma corriente y repita cada una de las medidas anteriores..
6. Verifique que cualquier voltaje encontrado no exceda de **0.7 mA** AC o **2 mA** DC. En cualquier caso que la medición esté fuera de los límites especificados, existe la posibilidad de un corto, el receptor deberá ser revisado antes de regresarse al cliente.



2 PRECAUCIONES

PRECAUCIÓN
CONTIENEN PARTES Y ENSAMBLES SUSCEPTIBLES
DE DAÑARSE POR DESCARGAS ELECTROSTÁTICAS.

2.1 Prevención de Descarga Electrostática (ESD), El equipo es Sensible a la Electrostática (ES).

Algunos dispositivo semiconductor (estado sólido) pueden ser dañados fácilmente por electricidad estática. Normalmente se llaman Dispositivos Sensibles a la Electrostática (ES). Ejemplos típicos de dispositivos de ES son circuitos integrados algunos transistores de efecto de campo y componentes semiconductores [chip]. Las técnicas siguientes deben usarse para ayudar a reducir la incidencia de daño del componente por la descarga electrostática (ESD).

1. Inmediatamente antes de ocuparse de cualquier componente semiconductor o semiconductor ensamblado. Drene fuera de su cuerpo la carga ESD tocando una tierra conocida. Conjuntamente, obtenga una correa para su muñeca para descargar la energía electrostática, para mayor protección de los dispositivos sensibles a la ESD.
2. Después de quitar un dispositivo semiconductor ES, ponga el dispositivo en un material conductivo como la lamina de aluminio, para prevenir aumento de carga electrostática o exposición del ensamble.
3. Use Cautin con conexión a Tierra para soldar o desoldar los dispositivos de ES.
4. Use sólo removedor de soldadura antiestático. Algunos dispositivos removedor no son clasificados como [antiestáticos (ESD)] puede generar carga eléctrica suficiente para dañar los dispositivos ES.
5. No use los químicos freon. Estos pueden generar cargas eléctricas suficiente para dañar los dispositivos de ES.
6. No quite un dispositivo ES inmediatamente de su empaqué de protección hasta antes de que usted esté listo para instalarlo. (Los dispositivos de ES que son reemplazos deben de estar empacados con protección de cortos eléctricos junto con espuma conductiva, lamina de aluminio o material conductivo comparable).
7. Inmediatamente antes de quitar el material de protección del dispositivo de ES, toque el material protector con el chasis o ensamble el circuito en el dispositivo que se instalará.

Precaución

Asegúrese de que ningún Voltaje es aplicado al chasis o circuito, y observe todas las otras precauciones de seguridad.

8. Minimice los movimientos corporales al ocuparse del reemplazo de los dispositivos ES.

SÍMBOLOS USADOS EN DISPOSITIVOS SUSCEPTIBLES A ESD.

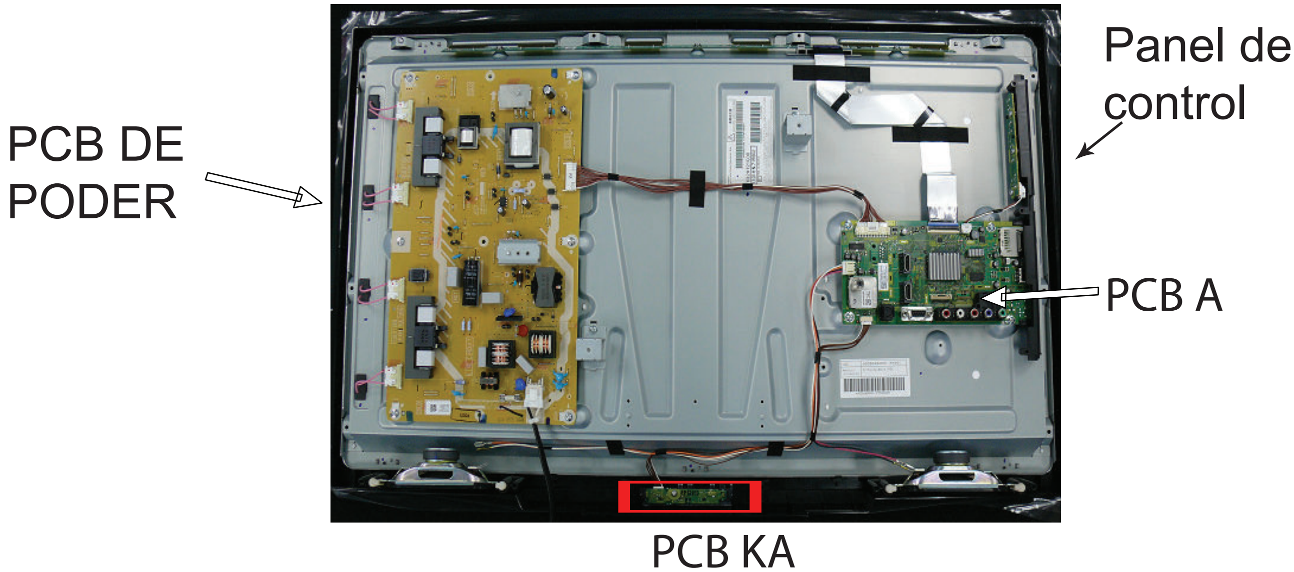


2.2 Soldadura libre de plomo (PbF).

La Soldadura Libre plomo es usada en nuestros procesos de fabricación y es (Sn+Ag+Cu). Estaño (Sn), Plata (Ag) y Cobre (Cu) aunque otros tipos están disponibles. Debido a los problemas de conservación ambientales. Para el servicio y trabajo de la reparación, sugerimos el uso de soldadura libre de plomo., aunque la soldadura de Pb puede usarse.
Un Símbolo en forma de hoja y PbF se estampó en la parte de atrás del PCB para referencia del uso de soldadura sin plomo.

Precaución:
La soldadura libre de plomo tiene un punto de fundición más alto que la soldadura normal. Típicamente el punto de fundición es 50 ~ 70 °F (30~40 °C) superior. Por favor use una temperatura alta y póngalo a 700 ± 20 °F (370 ± 10 °C).
Si va a usar soldadura con plomo Pb por favor remover todo la soldadura antes de aplicar la soldadura con Pb.

3.0 SERVICIO



3.1 Modo de servicio.

Como entrar al modo de Fact test

1.- Presione el boton de volumen (-) y al mismo tiempo presione en el control remoto la tecla (info) tres veces dentro de tres segundos.

Versión de Software

Modo de servicio	SERVICE	Peaks SOFT	1.22
Ajuste de contraste	ADJUST	Peaks EEP	01.00.0101
Ajuste de white balance	WB-ADJ	LS1 DATA	1.00.01
Opción	OPTION	STBY SOFT	2.00.00
Herramientas	SRV-TOOL	STBY EEP	2.01.0717
		STBY ROMCOR	0.00.00

Presione la tecla (1) → Main Item / Sub item / Registro

ADJUST
CONTRAST 000
YMAX

Navegación con el control remoto.
Tecla (1) Principales items en dirección hacia adelante
Tecla (2) Principales items en dirección hacia atras
Tecla (3) Principales items en dirección hacia adelante
Tecla (4) Principales items en dirección hacia atras

3.2 Contenido de modo de servicio.

Es necesario que confirme estos registros en el equipo, si no cambie a los especificado en estas tablas.

MENU	SUB MENU	SERIE C4
ADJ AJUSTE	CONTRASTE	ver pagina 9
	COLOR	4E
	TINT	00
	SUB-BRT	800
	BACKLGT	239
	B-Y-G	40
	R-Y-A	00
	VCOM	198

MENU
WB - ADJ SOLO MODO VIVIDO

TC-L32C4X TC-L32C4Y

Vivido	R-Gain	G-Gain	B-Gain	R-Cent	G-Cent	B-Cent
Cool	60	71	80	7F	80	91
Normal	73	80	7A	7B	80	91
Warm	80	7A	58	7B	80	88

MENU	SUB MENU	Serie C4
OPTION	BOOT	ROM
	STBY-SET	00
	EMERGENCY	ON
	CLK MODE	00
	CLOCK	0D8
	EDID CLK	HIGH

MENU	SUB MENU	Serie C4
SRV-TOOL		ver pagina 6

NOTA :
Para salir solo apague el televisor desconectando el cable de AC.

4 SRV-TOOL HERRAMIENTAS DE SERVICIO

4.1 Como accesar.

1.- Seleccione SRV-TOOL en service mode
2.- Presione OK en el control remoto

SRV-TOOL	
TD2Microcode : 08c00011	
Flash ROM : 1-227E	
PTCT: 00.00.00.00.00	Time 000040:40 Count 0000049

Despliegue versión de

Despliegue de código de marcado de

Despliegue de Historial SOS

Despliegue del contador y tiempo de encendido.

4.2 Despliegue del Historial SOS.

Historial SOS

De Izquierda a derecha ; Ultimo SOS, Antes del ultimo, Tercer ocurrencia antes, 2a ocurrencia después de embarque, 1a ocurrencia después del embarque.

Esta indicación excepto la 2a y la 1a ocurrencia después del embarque se aclarara por indicación de self check y Forzado a condiciones de modo de fabrica.

4.3 Contador y Tiempo de Encendido.

Utilice el cursor del control remoto para desplazarse a la casilla de despliegue del Contador de tiempo de encendido y contador de veces en que el TV ha sido encendido y apagado.

Nota : Para desplegar el menú “contador y tiempo de encendido”, presione MUTE por 3 segundos.
Time : Tiempo de encendido acumulado, indicando la hora : minuto en decimal.
Count : Numero de veces que se ha encendido el TV en decimal.

Nota : estas indicaciones no son restablecidas por ningún Self Check o algún otro comando.

Salir del Menú

Desconecte el TV del toma corriente

5 GUIA PARA SOLUCION DE PROBLEMAS.

5.1 Función Self check

a) Solo indicaciones de self check : Use esta función para confirmar la comunicación de las IIC como auto diagnostico.
Como accesar al modo de self check autodiagnostico.
Presione en el Televisor la tecla de Volumen (-), y al mismo tiempo en el control remoto presione la tecla [OK] por mas de 3 segundos una imagen como la que se muestra abajo sera desplegada.

b) Indicacion de self check + reset : Use esta función para confirmar el estado de las memorias IIC y establecer los registros a modo de fabrica.
Como accesar al modo de self check autodiagnostico y reset del TV.
Presione en el Televisor la tecla de Volumen (-), y al mismo tiempo en el control remoto presione la tecla [menu] por mas de 3 segundos una imagen como la que se muestra abajo sera desplegada.

TC-L32C4X Y TC-L32C4Y



Confirmar si el mensaje no sea NG

SELF CHECK	SELF CHECK	TC-L32C4X	TC-L32C4Y
PEAKS	PEAKS	OK	OK
TUNER	TUN	OK	OK
AVSW	AVSW	OK	OK
STBY	STBY	OK	OK
MEM1	MEM1	OK	OK
MEM2	MEM2	OK	OK
MEM3	DAC	OK	OK
TCON-DC DC	DC-DC	OK	OK
TCON-DAC	MEM3	OK	OK

5.2 Parpadeo de LED Frontal.

Parpadeo de LED frontal funciona cuando una anormalidad en el Televisor esta ocurriendo, esta funcion opera como protección de los circuitos por lo que cambia el Televisor a modo stand by.

Para ubicar el bloque defectuoso puede verificar el numero de veces que parpadea el LED, ver tabla para referencia.

Parpadeo de led	Descripción	Comentarios
1		BL_SOS
2		main microprocesor_SOS
3		SOS tuner powersource
4		SUB12V_SENSE_SOS
7		SUB3.3V_SENSE_SOS
9		SOUND SOS
10		ZWEI2_SOS
12		BE(SId)_SOS
13		EMERGENY_SOS
14		IROM_SOS

Tabla 2

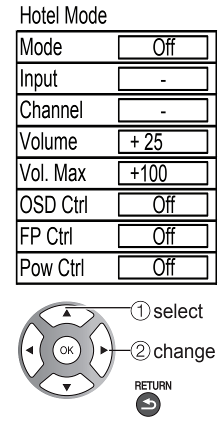
5.3 Cuando el Televisor no encienda.

Existen dos estados de no enciende,

1.- Parpadeo del LED por pocos segundos ver Tabla 2.

2.- No hay indicación del LED :
a) Confirme voltajes en la placa de poder [P] (ver Pagina 9).
b) Confirme los voltajes de la placa [A] (ver Pagina 9).

6 MODO DE HOTEL



El propósito es restringir funciones del TV para operación en los Hoteles

6.1 Como accesar al Menu Modo de Hotel

1.- Para accesar al modo de hotel es necesario realizar esta operación dentro de 2 segundos.
Mantener presionada la tecla en el TV de volumen (-) y en el control remoto presione el boton (Input) por 3 veces al mismo tiempo.

Entonces, el menu de modo de Hotel sera desplegado.

6.2 Descripcion de funciones de modo de Hotel

Menú	Operación
Modo	Selecciona el modo de hotel off/on
Input	Seleccione modos de señal de entrada, esta opción selecciona la entrada de AV cada vez que se enciende el TV. Selecciona : --- /RF/Component/HDMI1/HDMI2/Video1/Video2/PC Off: Le da prioridad al registro al ultimo registro de memoria.
Channel	Selecciona el canal cuando la entrada de señal es RF. Selecciona el canal cada vez que el TV es encendido.
Volume	Ajusta el volumen cada vez que se enciende el TV. Rango: 0 a 100
Vol. Máx	Ajusta al volumen deseado Rango: 0 a 100
OSD Ctrl	Restricciones de OSD Selection: OFF: No restricción PATTERN1: Restricción
FP Ctrl	Selección de condición de teclas frontales. Selección: Off: Todas las teclas son validas. Pattern1: Solo la tecla de AV es Valida. All: ninguna tecla es valida.
Pow Ctrl	Seleccione la condición de POWER-ON/OFF cuando el cable de AC es desconectado y después conectado. OFF: Misma condición cuando el cable de AC es desconectado. ON: Enciende cada vez que el cable de AC es conectado.

7 MEDICIONES Y AJUSTES

7.1 Carta de voltajes.

PLACA DE PODER

PLACA P TNP4G508* (P-Board)

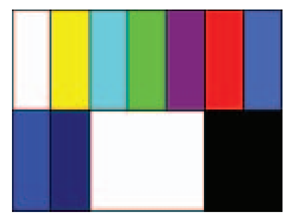
VOLTAJE	PUNTO DE PRUEBA	ESPEC.	ESTADO	ZONA
PFC390V	+ TP7201,7202	390 ± 15 V	RECEPTION	* HOT
	- TP7203,7204	-	RECEPTION	* HOT
DTV16V	TP7801,7505	15.6 ± 2 V	RECEPTION	
STBY6V	TP7506	5.8 ± 1 V	RECEPTION	
		5.8 ± 1 V	STAND BY	

PLACA DE PRINCIPAL A

PlACA PRINCIPAL A TNP4G519** (A-Board)

VOLTAJE	PUNTO DE PRUEBA	ESPEC EN V
SUB1.8V	TP8700	1.74-1.90 V
SUB1.2V	TP8100	1.07-1.21 V
SUB3.3V	TP8701	3.19 - 3.46 V
SUB5V	TP8702	4.95-5.25 V
STB5V	TP5400	4.9-5.1 V
SUB1.5V	TP8101	1.4-1.6 V

7.2 Ajuste de contraste (Solo RF).

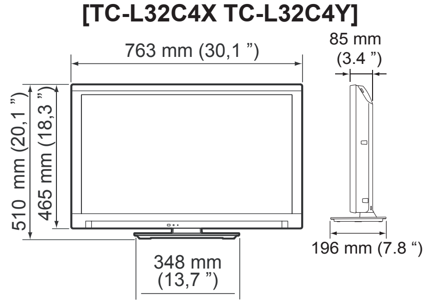
INSTRUMENTOS	COMENTARIOS
Control remoto RF = SEÑAL EXT COLOR BAR	 Patrón sprit color bar

PROCEDIMIENTO	COMENTARIOS
Entre al modo de servicio y con las teclas 1, 2 del control remoto seleccione el canal donde tiene el patrón Color bar. 1.- Seleccione el modo de ajuste como se muestra ADJUST VIVID CONTRAST Y MAX Presione OK por mas de 3 segundos y observe que la operación se realice de forma Automática.	Tiene que tener de fondo el patrón Color Bar.

8 ESPECIFICACIONES

		TC-L32C4X	TC-L32C4Y
Alimentación		110-127 V CA, 60 Hz	220 V CA, 50/60 Hz
Consumo	Consumo nominal de energía	88 W	87 W
	Condición de espera	0,2 W	
Panel de visualización	Relación de aspecto	16:9	
	Tamaño de pantalla visible	Clase 32” (31,5 pulgadas medidas diagonalmente)	
	(An. × Al. × Diagonal)	698 mm × 392 mm × 800 mm (27,5 ” × 15,4 ” × 31,5 ”)	
	(Número de píxeles)	1.049.088 (1.366 (An.) × 768 (Al.)) [4.098 × 768 puntos]	
Sonido	Altavoces	2 altavoces de 1 vía	
	Salida de audio	10 W [5 W + 5 W] (10 % de distorsión armónica total)	
Señales PC		VGA, SVGA, XGA, WXGA, SXGA Frecuencia de escaneo horizontal 31 - 69 kHz Frecuencia de escaneo vertical 59 - 86 Hz	
Capacidad de canales-		VHF/ UHF: 2 - 69, CATV: 1 - 135 ATSC/NTSC (Digital/Análogo)	VHF/ UHF: 2 - 69, CATV: 1 - 135 NTSC (Análogo)
Condiciones de funcionamiento		Temperatura: 32 °F – 95 °F (0 °C – 35 °C) Humedad: 20 % – 80 % RH (sin condensación)	
Terminales de conexión	VIDEO IN	VIDEO: Tipo RCA PIN × 1 1,0 V [p-p] (75 Ω) AUDIO L-R: Tipo RCA PIN × 2 0,5 V [rms]	
	COMPONENT IN	Y: 1,0 V [p-p] (incluyendo sincronización) P_B, P_R: ±0,35 V [p-p] AUDIO L-R: Tipo RCA PIN × 2 0,5 V [rms]	
	HDMI 1-2	Conector tipo A × 2 ● Este televisor soporta la función “HDAVI Control 5”.	
	USB	USB 2.0 Conector tipo A × 1 (CC 5 V MÁX . 500 mA)	
	PC	D-SUB 15PIN: R,G,B / 0,7 V [p-p] (75 Ω) HD, VD / 1,0 - 5,0 V [p-p] (alta impedania)	
	Ranura de tarjeta	1 ranura de tarjeta SD	
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fibra óptica	PCM / Fibra óptica
CARACTERÍSTICAS		FILTRO Y/C 3D Subtítulos V-Chip VIERA IMAGE VIEWER Reproductor de Medios HDAVI Control 5	
Dimensiones (An. × Al. × Prof.)	Incluyendo pedestal	763 mm × 510 mm × 196 mm (30,1 ” × 20,1 ” × 7,8 ”)	
	Televisor solamente	763 mm × 478 mm × 85 mm) (30,1 ” × 13,7 ” × 3,4 ”	
Masa	Incluyendo pedestal	17,7 lb. (8,0 kg) NETO	
	Televisor solamente	16,6 lb. (7,5 kg) NETO	

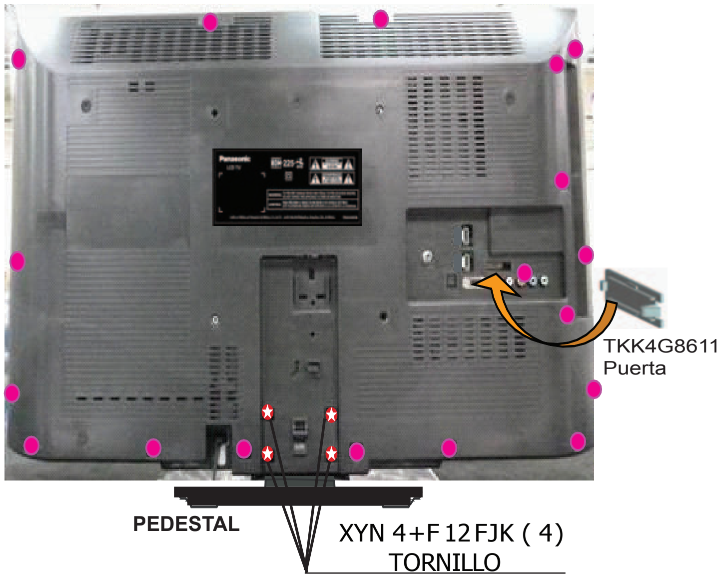
[TC-L32C4X TC-L32C4Y]



9 INSTRUCCIONES DE ENSAMBLE Y DESENSAMBLE DEL TELEVISOR

9.1 PEDESTAL Y TAPA POSTERIOR.

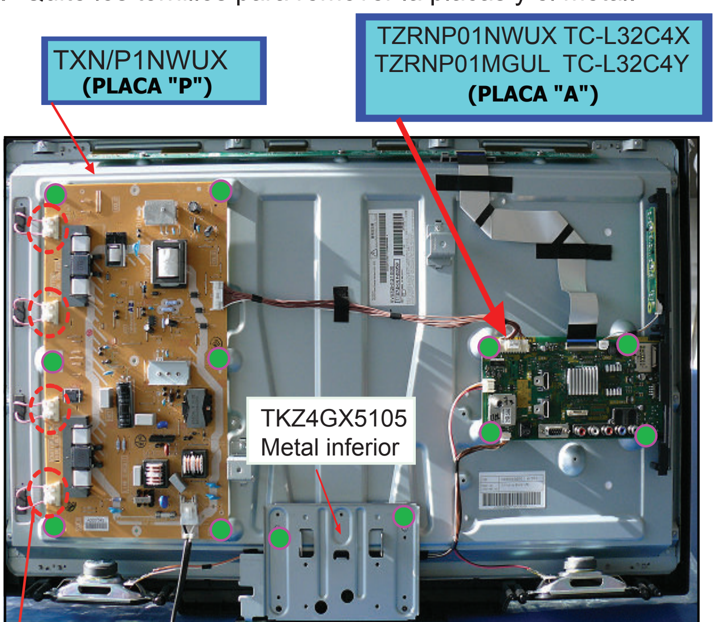
1.- Quite los tornillos para remover el pedestal y la tapa.



XTV3+12JFJ12 (18)
Tornillo BC

9.2 PLACA P DE PODER, PLACA A, METAL INFERIOR.

1.- Quite los tornillos para remover la placas y el metal.

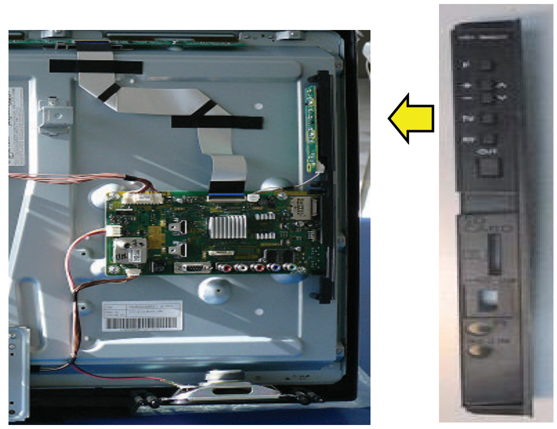


PUNTO DE CUIDADO

No jalar del cable
Asegurar la conexión completa de los conectores del panel

THEJ036J (12)
Tornillo

9.3 AV BRACKET, CABLE DE AC.



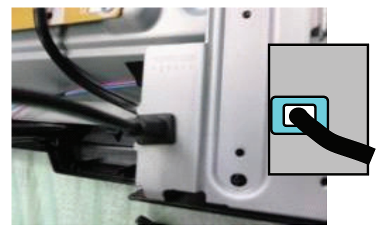


PUNTO DE CUIDADO

Confirmar que los seguros (ganchos), esten bien insertados en la pista.

Inserte el cable de AC en el amarre.

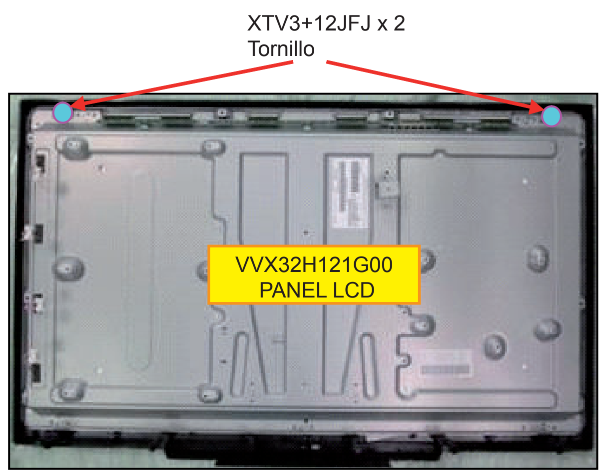




CABLE DE AC

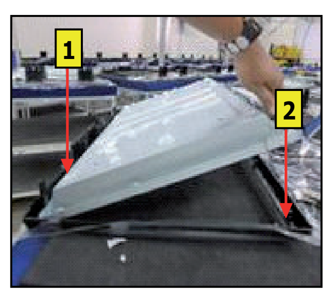
K2CB2YY00035	TC-L32C4X
K2CQ2YY00085	TC-L32C4Y

9.4 PANEL LCD



PUNTO DE CUIDADO

El panel debe colocarse cuidadosamente, sin dejarlo caer. Asegurar primero la parte inferior y posteriormente la parte superior.

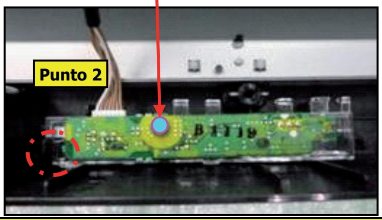


9 INSTRUCCIONES DE ENSAMBLE Y DESENSAMBLE DEL TELEVISOR.

9.5 PLACA KA

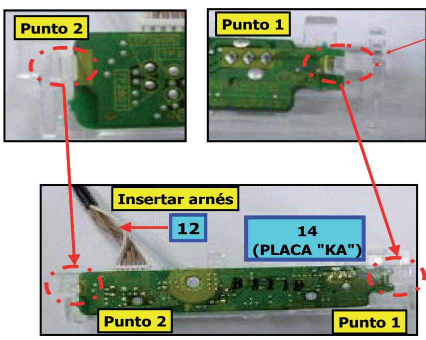
1.- Quite el tornillo.

XTV3+12JFJ x 1
Tornillo



PUNTO DE CUIDADO

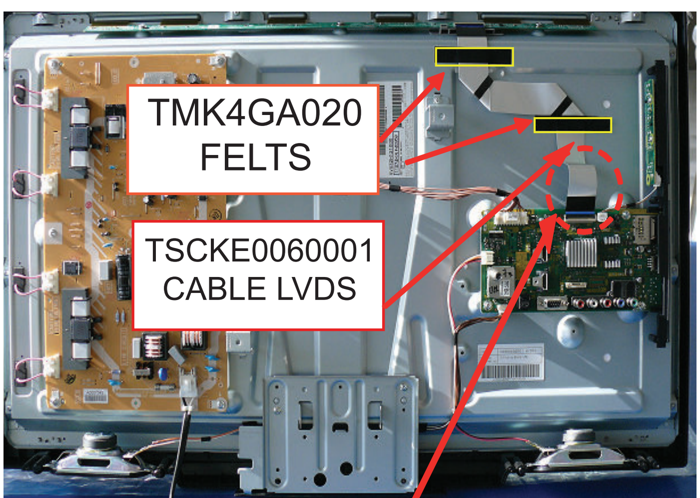
Insertar primero el punto 1 dentro del panel y posteriormente fijar el punto 2.



TKK3AC5002
led Panel

9.6 CABLE LVDS

1.- Quite el tornillo.



PUNTO DE CUIDADO

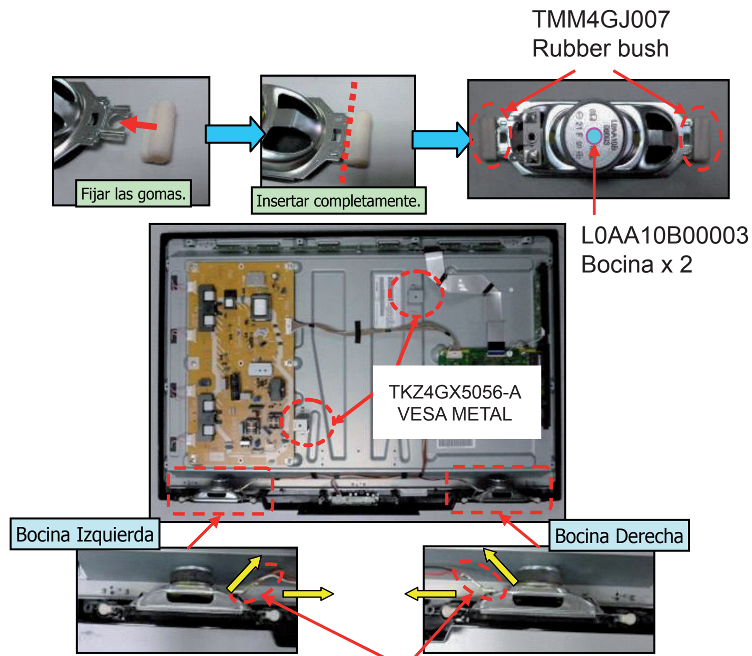
Asegurar el doblez en el Cable LVDS .

PUNTO DE CUIDADO: Conexión del cable LVDS.



CONECTOR DEL PANEL LCD | CONECTOR DE LA PISTA "A"

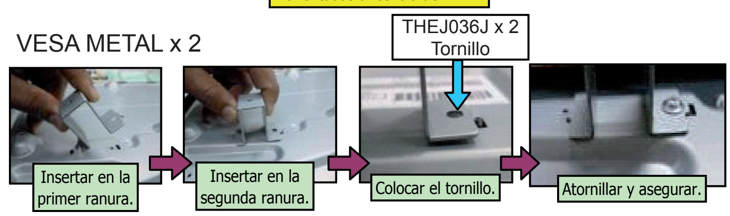
9.7 BOCINAS Y METAL VESA



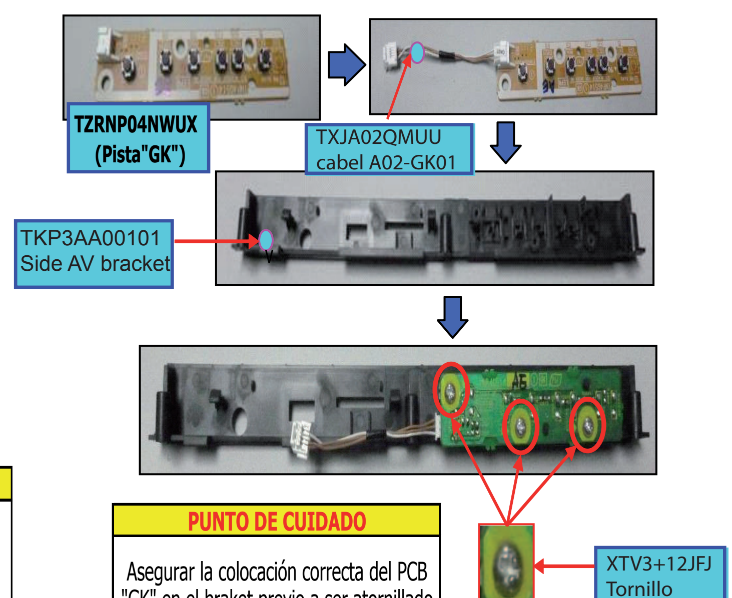
PUNTO DE CUIDADO

Cuidar que las terminales estén orientadas al centro del TV .

VESA METAL x 2



9.8 BOTONERA Y PLACA GK.



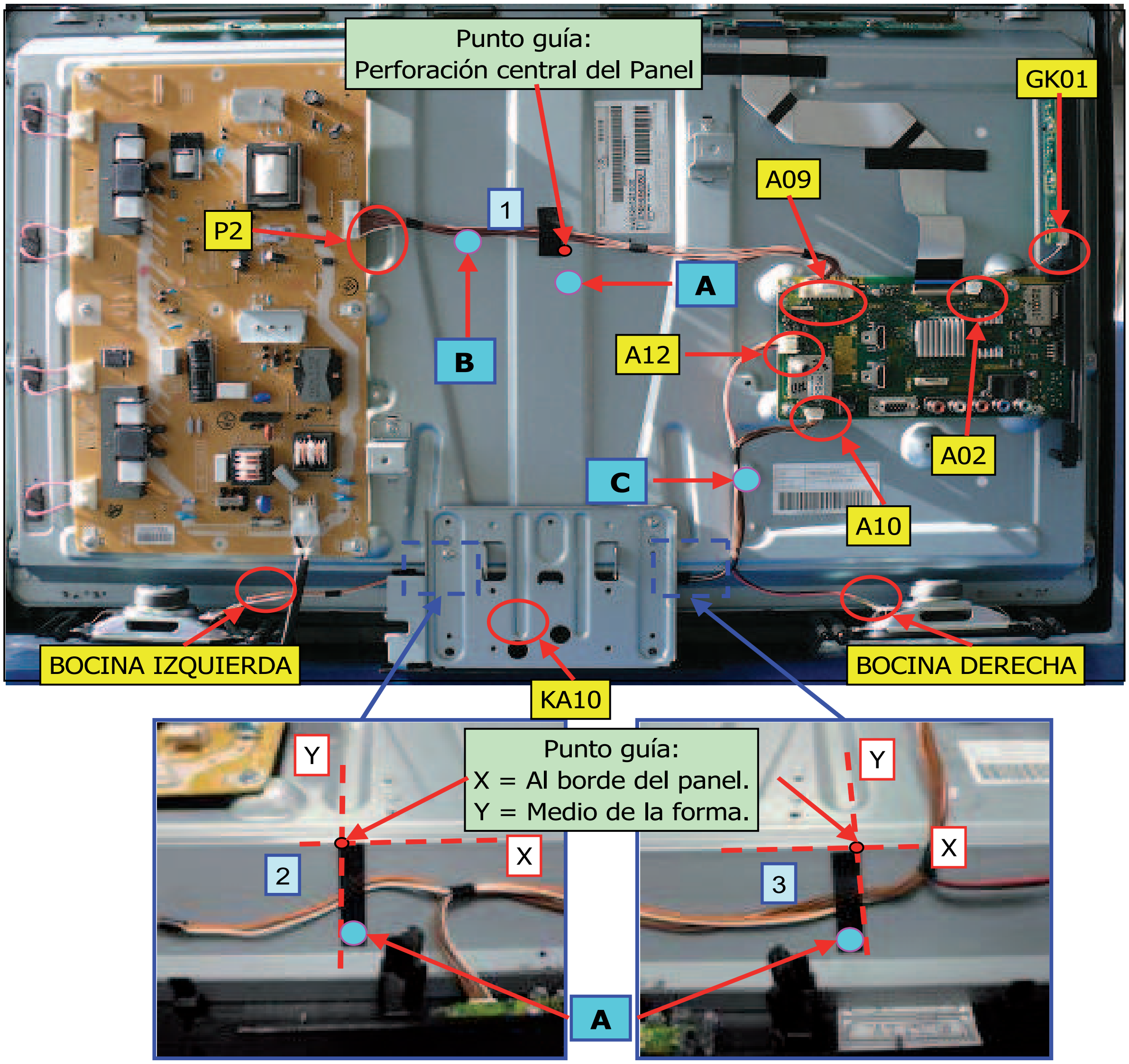
PUNTO DE CUIDADO

Asegurar la colocación correcta del PCB "GK" en el braket previo a ser atornillado

9 DIAGRAMA DE CONEXIONES MODELO TC-L32C4X TC-L32C4Y.

9.9 DIAGRAMA DE CONEXIONES.

1.- Por favor confirmar que todos los cables estén conectados adecuadamente
Inclusive verifique que no estén de lado o inclinados.



► Amarres	Interlón		
Arnés	1	2	3
P2 - A09	●		
A12 - Bocina Izq.		●	
A12+A10 - KA10			●

No.	Número de Parte	Descripción	Cant.
A	TMK4GA041	INTERLÓN (0.55*15*35)	3
B	TXJA09QMUU	CABLE A09-P2	1
C	TXJA10QMUU	CABLE A10-KA10 (BOCINAS)	1

10 Lista de Partes de Reemplazo

10.1 Notas de Reemplazo de Lista de Partes

Aviso Importante de Seguridad

Los componentes identificados por una marca S: material de seguridad, tendrán características especiales importantes para seguridad. Cuando reemplace alguno de estos componentes, use las partes especificadas por el fabricante.

1. Resistor
   Ejemplo:
   ERD25J104T C 100kΩ , J, 1/4W
   Tipo Tolerancia

Tipo	Tolerancia
C: Carbón	F: ± 1%
F: Fusible	G: ± 2%
M: Oxido Metálico	J: ± 5%
S: Sólido	K: ± 10%
W: Alambre Enrollado	M: ± 20%

2. Capacitor
   Ejemplo:
   ECKF1H103ZF C 0.01MF, Z, 50V
   Tipo Tolerancia

Tipo	Tolerancia
C: Carbón	C: ± 0.25pF
E: Electrolítico	D: ± 0.5pF
P: Poliester Polipropileno	F: ± 1pF G: ± 3%
T: Tantalio	J: ± 5%
	K: ± 10%
	L: ± 15%
	M: ±20%
	P: ±100%, -0%
	Z: ± 80%, -20%

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

CAPACITORES

Posición	Cantidad	Clave	Descripción	S	Comentarios
C3105	1	EEEHB0J101UR	C 100µF, M, 6.3V		
C5613	1	EEEHB0J221UP	C 220µF, M, 6.3V		
C3058	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3059	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3159	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3160	1	F1G1A105A047	Chip 1 µF, J, 10V		
C3161	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4170	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4180	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4546	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4548	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4812	1	F1G1A105A047	Chip 1 µF, J, 10V		
C4813	1	F1G1A105A047	Chip 1 µF, J, 10V		
C5021	1	F1G1A105A047	Chip 1 µF, J, 10V		
C5022	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8014	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8015	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8305	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8306	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8307	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8308	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8309	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8310	1	F1G1A105A047	Chip 1 µF, J, 10V		
C8311	1	F1G1A105A047	Chip 1 µF, J, 10V		
C2009	1	F1G1C104A077	C 0.10µF, K, 16V		
C2750	1	F1G1C104A077	C 0.10µF, K, 16V		
C3024	1	F1G1C104A077	C 0.10µF, K, 16V		
C3036	1	F1G1C104A077	C 0.10µF, K, 16V		
C3045	1	F1G1C104A077	C 0.10µF, K, 16V		
C3080	1	F1G1C104A077	C 0.10µF, K, 16V		
C3146	1	F1G1C104A077	C 0.10µF, K, 16V		
C3158	1	F1G1C104A077	C 0.10µF, K, 16V		
C4122	1	F1G1C104A077	C 0.10µF, K, 16V		
C4123	1	F1G1C104A077	C 0.10µF, K, 16V		
C4124	1	F1G1C104A077	C 0.10µF, K, 16V		
C4125	1	F1G1C104A077	C 0.10µF, K, 16V		
C4126	1	F1G1C104A077	C 0.10µF, K, 16V		
C4127	1	F1G1C104A077	C 0.10µF, K, 16V		
C4129	1	F1G1C104A077	C 0.10µF, K, 16V		
C4130	1	F1G1C104A077	C 0.10µF, K, 16V		

Posición	Cantitdad	Clave	Descripción	S	Comentarios
C4131	1	F1G1C104A077	C 0.10µF, K, 16V		
C4132	1	F1G1C104A077	C 0.10µF, K, 16V		
C4133	1	F1G1C104A077	C 0.10µF, K, 16V		
C4151	1	F1G1C104A077	C 0.10µF, K, 16V		
C4809	1	F1G1C104A077	C 0.10µF, K, 16V		Solo TC-L32C4X
C4810	1	F1G1C104A077	C 0.10µF, K, 16V		Solo TC-L32C4X
C4811	1	F1G1C104A077	C 0.10µF, K, 16V		
C5020	1	F1G1C104A077	C 0.10µF, K, 16V		
C5616	1	F1G1C104A077	C 0.10µF, K, 16V		
C5625	1	F1G1C104A077	C 0.10µF, K, 16V		
C8004	1	F1G1C104A077	C 0.10µF, K, 16V		
C8005	1	F1G1C104A077	C 0.10µF, K, 16V		
C8006	1	F1G1C104A077	C 0.10µF, K, 16V		
C8011	1	F1G1C104A077	C 0.10µF, K, 16V		
C8016	1	F1G1C104A077	C 0.10µF, K, 16V		
C8023	1	F1G1C104A077	C 0.10µF, K, 16V		
C8028	1	F1G1C104A077	C 0.10µF, K, 16V		
C8029	1	F1G1C104A077	C 0.10µF, K, 16V		
C8031	1	F1G1C104A077	C 0.10µF, K, 16V		
C8034	1	F1G1C104A077	C 0.10µF, K, 16V		
C8035	1	F1G1C104A077	C 0.10µF, K, 16V		
C8041	1	F1G1C104A077	C 0.10µF, K, 16V		
C8044	1	F1G1C104A077	C 0.10µF, K, 16V		
C8046	1	F1G1C104A077	C 0.10µF, K, 16V		
C8047	1	F1G1C104A077	C 0.10µF, K, 16V		
C8050	1	F1G1C104A077	C 0.10µF, K, 16V		
C8051	1	F1G1C104A077	C 0.10µF, K, 16V		
C8053	1	F1G1C104A077	C 0.10µF, K, 16V		
C8054	1	F1G1C104A077	C 0.10µF, K, 16V		
C8108	1	F1G1C104A077	C 0.10µF, K, 16V		
C8110	1	F1G1C104A077	C 0.10µF, K, 16V		
C8200	1	F1G1C104A077	C 0.10µF, K, 16V		
C8203	1	F1G1C104A077	C 0.10µF, K, 16V		
C8204	1	F1G1C104A077	C 0.10µF, K, 16V		
C8205	1	F1G1C104A077	C 0.10µF, K, 16V		
C8206	1	F1G1C104A077	C 0.10µF, K, 16V		
C8208	1	F1G1C104A077	C 0.10µF, K, 16V		
C8210	1	F1G1C104A077	C 0.10µF, K, 16V		
C8212	1	F1G1C104A077	C 0.10µF, K, 16V		
C8215	1	F1G1C104A077	C 0.10µF, K, 16V		
C8218	1	F1G1C104A077	C 0.10µF, K, 16V		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

C8220	1	F1G1C104A077	C 0.10µF, K, 16V		
C8221	1	F1G1C104A077	C 0.10µF, K, 16V		
C8224	1	F1G1C104A077	C 0.10µF, K, 16V		
C8225	1	F1G1C104A077	C 0.10µF, K, 16V		
C8302	1	F1G1C104A077	C 0.10µF, K, 16V		
C8303	1	F1G1C104A077	C 0.10µF, K, 16V		
C8304	1	F1G1C104A077	C 0.10µF, K, 16V		
C8619	1	F1G1C104A077	C 0.10µF, K, 16V		
C8620	1	F1G1C104A077	C 0.10µF, K, 16V		
C8627	1	F1G1C104A077	C 0.10µF, K, 16V		
C8716	1	F1G1C104A077	C 0.10µF, K, 16V		
C8717	1	F1G1C104A077	C 0.10µF, K, 16V		
C8900	1	F1G1C104A077	C 0.10µF, K, 16V		
C8901	1	F1G1C104A077	C 0.10µF, K, 16V		
C8902	1	F1G1C104A077	C 0.10µF, K, 16V		
C8903	1	F1G1C104A077	C 0.10µF, K, 16V		
C8106	1	F1G1C223A081	Surface ceramic capa		
C8700	1	F1G1C223A081	Surface ceramic capa		
C8711	1	F1G1C223A081	Surface ceramic capa		
C8769	1	F1G1C223A081	Surface ceramic capa		
C1000	1	F1G1E1030005	C 0.01 µF K, 25V		
C2001	1	F1G1E1030005	C 0.01 µF K, 25V		
C4005	1	F1G1E1030005	C 0.01 µF K, 25V		
C5151	1	F1G1E1030005	C 0.01 µF K, 25V		
C5171	1	F1G1E1030005	C 0.01 µF K, 25V		
C8707	1	F1G1E1030005	C 0.01 µF K, 25V		
C8712	1	F1G1E272A123	C 2700pF, K, 25V		
C4173	1	F1G1E472A086	C 4700pF K, 25V		
C4179	1	F1G1E472A086	C 4700pF K, 25V		
C8100	1	F1G1E682A123	C 6800pF K, 25V		
C4815	1	F1G1H100A565	C 10pF K, 50V		
C4816	1	F1G1H100A565	C 10pF K, 50V		
C4817	1	F1G1H100A565	C 10pF K, 50V		
C1955	1	F1G1H101A565	C 100pF K, 50V		
C2775	1	F1G1H101A565	C 100pF K, 50V		
C4814	1	F1G1H101A565	C 100pF K, 50V		
C8027	1	F1G1H101A565	C 100pF K, 50V		
C8030	1	F1G1H101A565	C 100pF K, 50V		
C8045	1	F1G1H101A565	C 100pF K, 50V		
C1951	1	F1G1H1020008	C 1000pF, K, 50V		
C2003	1	F1G1H1020008	C 1000pF, K, 50V		
C2751	1	F1G1H1020008	C 1000pF, K, 50V		
C2752	1	F1G1H1020008	C 1000pF, K, 50V		
C2753	1	F1G1H1020008	C 1000pF, K, 50V		
C2754	1	F1G1H1020008	C 1000pF, K, 50V		
C2755	1	F1G1H1020008	C 1000pF, K, 50V		
C4801	1	F1G1H1020008	C 1000pF, K, 50V		
C4803	1	F1G1H1020008	C 1000pF, K, 50V		
C4805	1	F1G1H1020008	C 1000pF, K, 50V		
C4934	1	F1G1H1020008	C 1000pF, K, 50V		
C4935	1	F1G1H1020008	C 1000pF, K, 50V		
C4936	1	F1G1H1020008	C 1000pF, K, 50V		
C4937	1	F1G1H1020008	C 1000pF, K, 50V		
C8008	1	F1G1H1020008	C 1000pF, K, 50V		
C8013	1	F1G1H1020008	C 1000pF, K, 50V		
C8038	1	F1G1H1020008	C 1000pF, K, 50V		
C8055	1	F1G1H1020008	C 1000pF, K, 50V		
C8705	1	F1G1H1020008	C 1000pF, K, 50V		
C4800	1	F1G1H220A565	C 22pF, K, 50V		Solo TC-L32C4X
C4174	1	F1G1H560A565	C 56pF, K, 50V		
C3167	1	F1G1H5610004	C 560pF, K, 50V		
C3168	1	F1G1H5610004	C 560pF, K, 50V		
C8300	1	F1G1H6R0A732	C 6pF, C, 50V		
C8301	1	F1G1H6R0A732	C 6pF, C, 50V		
C3169	1	F1H1A105A025	C 1µF, K, 6.3V		
C3170	1	F1H1A105A025	C 1µF, K, 6.3V		
C5000	1	F1H1A105A025	C 1µF, K, 6.3V		
C5002	1	F1H1A105A025	C 1µF, K, 6.3V		
C5004	1	F1H1A105A025	C 1µF, K, 6.3V		
C5012	1	F1H1A105A025	C 1µF, K, 6.3V		
C5026	1	F1H1A105A025	C 1µF, K, 6.3V		
C5476	1	F1H1A105A025	C 1µF, K, 6.3V		
C5477	1	F1H1A105A025	C 1µF, K, 6.3V		
C8764	1	F1H1A105A025	C 1µF, K, 6.3V		
C8765	1	F1H1A105A025	C 1µF, K, 6.3V		
C4134	1	F1H1C105A149	C 1µF, K, 6.3V		
C8104	1	F1H1C105A149	C 1µF, K, 6.3V		
C4120	1	F1H1H104A970	C 0.1µF, K, 50V		
C4121	1	F1H1H104A970	C 0.1µF, K, 50V		
C4153	1	F1H1H104A970	C 0.1µF, K, 50V		
C4154	1	F1H1H104A970	C 0.1µF, K, 50V		
C4158	1	F1H1H104A970	C 0.1µF, K, 50V		
C4160	1	F1H1H104A970	C 0.1µF, K, 50V		
C4162	1	F1H1H104A970	C 0.1µF, K, 50V		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

C4169	1	F1H1H104A970	C 0.1µF, K, 50V		
C4911	1	F1H1H104A970	C 0.1µF, K, 50V		
C4913	1	F1H1H104A970	C 0.1µF, K, 50V		
C4915	1	F1H1H104A970	C 0.1µF, K, 50V		
C4917	1	F1H1H104A970	C 0.1µF, K, 50V		
C4926	1	F1H1H223A219	C 0.022µF, K, 50V		
C4927	1	F1H1H223A219	C 0.022µF, K, 50V		
C4928	1	F1H1H223A219	C 0.022µF, K, 50V		
C4929	1	F1H1H223A219	C 0.022µF, K, 50V		
C4930	1	F1H1H223A219	C 0.022µF, K, 50V		
C4931	1	F1H1H223A219	C 0.022µF, K, 50V		
C4932	1	F1H1H223A219	C 0.022µF, K, 50V		
C4933	1	F1H1H223A219	C 0.022µF, K, 50V		
C4155	1	F1H1H473A918	C 0.047µF, K, 50V		
C4156	1	F1H1H473A918	C 0.047µF, K, 50V		
C4157	1	F1H1H473A918	C 0.047µF, K, 50V		
C4159	1	F1H1H473A918	C 0.047µF, K, 50V		
C8026	1	F1J0G2260001	C 22µF, K, 4V		
C8120	1	F1J0G2260001	C 22µF, K, 4V		
C8122	1	F1J0G2260001	C 22µF, K, 4V		
C8124	1	F1J0G2260001	C 22µF, K, 4V		
C8126	1	F1J0G2260001	C 22µF, K, 4V		
C8128	1	F1J0G2260001	C 22µF, K, 4V		
C1953	1	F1J0J106A004	C 10µF, K, 6.3V		
C1954	1	F1J0J106A004	C 10µF, K, 6.3V		
C3008	1	F1J1A106A043	C 10µF, K, 6.3V		
C3057	1	F1J1A106A043	C 10µF, K, 6.3V		
C3077	1	F1J1A106A043	C 10µF, K, 6.3V		
C4802	1	F1J1A106A043	C 10µF, K, 6.3V		
C4804	1	F1J1A106A043	C 10µF, K, 6.3V		
C4806	1	F1J1A106A043	C 10µF, K, 6.3V		
C8702	1	F1J1A106A043	C 10µF, K, 6.3V		
C8708	1	F1J1A106A043	C 10µF, K, 6.3V		
C8709	1	F1J1A106A043	C 10µF, K, 6.3V		
C8710	1	F1J1A106A043	C 10µF, K, 6.3V		
C3093	1	F1J1A106A087	C 10µF, K, 6.3V		
C3095	1	F1J1A106A087	C 10µF, K, 6.3V		
C3097	1	F1J1A106A087	C 10µF, K, 6.3V		
C3171	1	F1J1A106A087	C 10µF, K, 6.3V		
C3172	1	F1J1A106A087	C 10µF, K, 6.3V		
C3173	1	F1J1A106A087	C 10µF, K, 6.3V		
C4002	1	F1J1A106A087	C 10µF, K, 6.3V		

C4006	1	F1J1A106A087	C 10µF, K, 6.3V		
C4128	1	F1J1A106A087	C 10µF, K, 6.3V		
C4970	1	F1J1A106A087	C 10µF, K, 6.3V		
C4971	1	F1J1A106A087	C 10µF, K, 6.3V		
C5624	1	F1J1A106A087	C 10µF, K, 6.3V		
C8001	1	F1J1A106A087	C 10µF, K, 6.3V		
C8009	1	F1J1A106A087	C 10µF, K, 6.3V		
C8019	1	F1J1A106A087	C 10µF, K, 6.3V		
C8024	1	F1J1A106A087	C 10µF, K, 6.3V		
C8025	1	F1J1A106A087	C 10µF, K, 6.3V		
C8037	1	F1J1A106A087	C 10µF, K, 6.3V		
C8039	1	F1J1A106A087	C 10µF, K, 6.3V		
C8042	1	F1J1A106A087	C 10µF, K, 6.3V		
C8207	1	F1J1A106A087	C 10µF, K, 6.3V		
C8216	1	F1J1A106A087	C 10µF, K, 6.3V		
C8628	1	F1J1A106A087	C 10µF, K, 6.3V		
C8703	1	F1J1A106A087	C 10µF, K, 6.3V		
C8715	1	F1J1A106A087	C 10µF, K, 6.3V		
C8773	1	F1J1A106A087	C 10µF, K, 6.3V		
C8102	1	F1J1A475A087	C 4.7µF, K, 10V		
C8714	1	F1J1A475A087	C 4.7µF, K, 10V		
C4175	1	F1J1C475A170	C 4.7µF, K, 10V		
C4176	1	F1J1C475A170	C 4.7µF, K, 10V		
C4177	1	F1J1C475A170	C 4.7µF, K, 10V		
C4178	1	F1J1C475A170	C 4.7µF, K, 10V		
C4001	1	F1J1C475A217	C 4.7µF, K, 10V		
C4152	1	F1J1E105A231	C 1µF, K, 25V		
C4161	1	F1J1E105A231	C 1µF, K, 25V		
C4909	1	F1J1E105A231	C 1µF, K, 25V		
C4912	1	F1J1E105A231	C 1µF, K, 25V		
C4914	1	F1J1E105A231	C 1µF, K, 25V		
C4918	1	F1J1E105A231	C 1µF, K, 25V		
C5006	1	F1J1E105A231	C 1µF, K, 25V		
C4921	1	F1J1E4740001	C 4.7µF, K, 25V		
C4922	1	F1J1E4740001	C 4.7µF, K, 25V		
C4924	1	F1J1E4740001	C 4.7µF, K, 25V		
C4925	1	F1J1E4740001	C 4.7µF, K, 25V		
C4150	1	F1J1E475A267	C 4.7µF, K, 25V		
C4181	1	F1J1E475A267	C 4.7µF, K, 25V		
C4182	1	F1J1E475A267	C 4.7µF, K, 25V		
C4187	1	F1K0J1060017	C 10µF, K, 6.3V		
C4188	1	F1K0J1060017	C 10µF, K, 6.3V		

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

C2008	1	F1K1E106A136	C 10µF, M, 16V		
C2010	1	F1K1E106A136	C 10µF, M, 16V		
C4163	1	F1K1E106A136	C 10µF, M, 16V		
C4164	1	F1K1E106A136	C 10µF, M, 16V		
C4907	1	F1K1E106A136	C 10µF, M, 16V		
C4910	1	F1K1E106A136	C 10µF, M, 16V		
C4916	1	F1K1E106A136	C 10µF, M, 16V		
C4976	1	F1K1E106A136	C 10µF, M, 16V		
C4977	1	F1K1E106A136	C 10µF, M, 16V		
C8112	1	F1K1E106A136	C 10µF, M, 16V		
C8114	1	F1K1E106A136	C 10µF, M, 16V		
C8116	1	F1K1E106A136	C 10µF, M, 16V		
C8118	1	F1K1E106A136	C 10µF, M, 16V		
C8721	1	F1K1E106A136	C 10µF, M, 16V		
C8722	1	F1K1E106A136	C 10µF, M, 16V		
C8723	1	F1K1E106A136	C 10µF, M, 16V		
C8724	1	F1K1E106A136	C 10µF, M, 16V		
C4165	1	F1K1E225A085	C 2.2µF, K, 25V		
C4166	1	F1K1E225A085	C 2.2µF, K, 25V		
C4167	1	F1K1E225A085	C 2.2µF, K, 25V		
C4168	1	F1K1E225A085	C 2.2µF, K, 25V		
C5001	1	F2H0J1010009	C 100µF, M, 6.3V		

DIODOS

Posición	Cantidad	Clave	Descripción	S	Comentarios
D4165	1	B0BC01000035	Voltage regulation diodes		
D5174	1	B0BC010A0007	Voltage regulation diodes		
D5172	1	B0BC01700015	Voltage regulation diodes		
D4173	1	B0BC01700030	Voltage regulation diodes		
D4174	1	B0BC022A0007	Voltage regulation diodes		
D4000	1	B0BC4R700020	Voltage regulation diodes		
D4169	1	B0BC4R700020	Voltage regulation diodes		
D4721	1	B0JCCD000020	Schottky barrier diodes		
D1000	1	B0JCCE000008	Schottky barrier diodes		
D1951	1	B0JCCE000008	Schottky barrier diodes		
D1955	1	B0JCCE000008	Schottky barrier diodes		
D4773	1	B0JCCE000008	Schottky barrier diodes		
D5480	1	B0JCCE000008	Schottky barrier diodes		
D4150	1	B0JCDE000006	Schottky barrier diodes		
D4152	1	B0JCDE000006	Schottky barrier diodes		
D4153	1	B0JCDE000006	Schottky barrier diodes		
D4154	1	B0JCDE000006	Schottky barrier diodes		
D4159	1	B0JCDE000006	Schottky barrier diodes		
D4160	1	B0JCDE000006	Schottky barrier diodes		
D4161	1	B0JCDE000006	Schottky barrier diodes		
D4162	1	B0JCDE000006	Schottky barrier diodes		
D4172	1	B0JCPE000004	Schottky barrier diodes		
D8700	1	B0JCPG000032	Schottky barrier diodes		
D4151	1	B0JDCE000017	Schottky barrier diodes		
D1952	1	DA2J10100L	Switching diodes		
D1953	1	DA2J10100L	Switching diodes		
D1954	1	DA2J10100L	Switching diodes		
D4001	1	DA2J10100L	Switching diodes		
D4156	1	DA2J10100L	Switching diodes		
D4157	1	DA2J10100L	Switching diodes		
D4166	1	DA2J10100L	Switching diodes		
D4167	1	DA2J10100L	Switching diodes		
D4168	1	DA2J10100L	Switching diodes		
D4171	1	DA2J10100L	Switching diodes		
D4175	1	DA2J10100L	Switching diodes		
D5173	1	DA2J10100L	Switching diodes		
D5175	1	DA2J10100L	Switching diodes		
D8716	1	DA2J10100L	Switching diodes		
D5180	1	DZ2J033M0L	Voltage regulation diodes		
D4170	1	DZ2J047M0L	Voltage regulation diodes		
D4163	1	DZ2J200M0L	Voltage regulation diodes		
D4155	1	DZ2J330M0L	Voltage regulation diodes		
D2001	1	EZJZ0V120JA	Varistors		
D2005	1	EZJZ0V120JA	Varistors		
D5004	1	EZJZ0V120JA	Varistors		
D3050	1	K7AAAY000011	Optical links		

CIRCUITOS INTEGRADOS

Posición	Cantidad	Clave	Descripción	S	Comentarios
IC5000	1	AN34043A-VF	ICs for video / audio		
IC8702	1	C0DBAFG00029	ICs for power supply		
IC8100	1	C0DBAYY00715	ICs for power supply		
IC4150	1	C0DBAYY00868	ICs for power supply		
IC8701	1	C0DBAYY00915	ICs for power supply		
IC8700	1	C0DBAYY00931	ICs for power supply		
IC5416	1	C0DBGYY00281	ICs for power supply		
IC8706	1	C0DBGYY00887	ICs for power supply		
IC5602	1	C0DBZYY00368	ICs for power supply		
IC1951	1	C0EBF0000354	Voltage detecting ICs (Reset ICs)		
IC4120	1	C0FBBY000086	A/D converters, D/A converters		
IC3001	1	C1AB00003385	ICs for video / audio		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

Posición	Cantidad	Clave	Descripción	S	Comentarios
IC4900	1	C1AB00003705	ICs for video / audio		
IC8200	1	C3ABTY000043	DRAM		
IC8201	1	C3ABTY000043	DRAM		
IC8000	1	MN2WS0175D	ICs for video / audio		
IC8900	1	TVR4G232-AB	FLASH memories		
IC8901	1	TVR4GAS1029	STBY EEPROM		
IC8902	1	TVR4GAS1033	PEAKS EEPROM		Solo TC-L32C4X
IC8902	1	TVR4GAS1034	PEAKS EEPROM		Solo TC-L32C4Y

BOBINAS

Posición	Cantidad	Clave	Descripción	S	Comentarios
L5603	1	EXC24CE900U	Filter for EMI / EMC		
L5605	1	EXC24CE900U	Filter for EMI / EMC		
FL4000	1	EXC28CE201U	Filter for EMI / EMC		
FL4001	1	EXC28CE201U	Filter for EMI / EMC		
FL4002	1	EXC28CE201U	Filter for EMI / EMC		
FL4003	1	EXC28CE201U	Filter for EMI / EMC		
FL4701	1	EXC28CE201U	Filter for EMI / EMC		
FL4702	1	EXC28CE201U	Filter for EMI / EMC		
FL4703	1	EXC28CE201U	Filter for EMI / EMC		
FL4704	1	EXC28CE201U	Filter for EMI / EMC		
L3006	1	G1C100MA0072	Surface mounting inductors		
L4151	1	G1C100MA0426	Surface mounting inductors		
L4900	1	G1C150MA0426	Surface mounting inductors		
L4901	1	G1C150MA0426	Surface mounting inductors		
L4902	1	G1C150MA0426	Surface mounting inductors		
L4903	1	G1C150MA0426	Surface mounting inductors		
L4153	1	G1C220MA0234	Surface mounting inductors		
L8102	1	G1C3R3MA0425	Surface mounting inductors		
L8100	1	G1C4R7MA0416	Surface mounting inductors		
L8701	1	G1C4R7MA0416	Surface mounting inductors		
L8700	1	G1C6R8MA0426	Surface mounting inductors		
L4803	1	G1CR39J00009	Surface mounting inductors		Solo TC-L32C4X
L4804	1	G1CR39J00009	Surface mounting inductors		Solo TC-L32C4X
L4805	1	J0JCC0000278	Filter for EMI / EMC		
L3122	1	J0JCC0000287	Filter for EMI / EMC		
L3123	1	J0JCC0000287	Filter for EMI / EMC		
L8003	1	J0JCC0000287	Filter for EMI / EMC		
L8015	1	J0JCC0000287	Filter for EMI / EMC		
L8016	1	J0JCC0000287	Filter for EMI / EMC		
L4800	1	J0JGC0000020	Filter for EMI / EMC		
L4801	1	J0JGC0000020	Filter for EMI / EMC		
L4802	1	J0JGC0000020	Filter for EMI / EMC		
L5601	1	J0JHC0000045	Filter for EMI / EMC		
L8005	1	J0JHC0000045	Filter for EMI / EMC		
L8006	1	J0JHC0000045	Filter for EMI / EMC		
L8007	1	J0JHC0000045	Filter for EMI / EMC		
L4000	1	J0JHC0000046	Filter for EMI / EMC		
L4150	1	J0JHC0000046	Filter for EMI / EMC		
L4152	1	J0JHC0000077	Filter for EMI / EMC		
L2310	1	J0JHC0000078	Filter for EMI / EMC		
L2311	1	J0JHC0000078	Filter for EMI / EMC		
L2312	1	J0JHC0000078	Filter for EMI / EMC		
L2313	1	J0JHC0000078	Filter for EMI / EMC		
L8009	1	J0JKC0000021	Filter for EMI / EMC		
L4700	1	J0JYC0000068	Filter for EMI / EMC		
L4701	1	J0JYC0000068	Filter for EMI / EMC		
L4703	1	J0JYC0000068	Filter for EMI / EMC		
L4704	1	J0JYC0000068	Filter for EMI / EMC		
L8702	1	J0JYC0000068	Filter for EMI / EMC		
L2001	1	J0JYC0000328	Filter for EMI / EMC		
L2750	1	J0JYC0000328	Filter for EMI / EMC		
L2751	1	J0JYC0000328	Filter for EMI / EMC		
L2754	1	J0JYC0000328	Filter for EMI / EMC		

TRANSISTORES

Posición	Cantidad	Clave	Descripción	S	Comentarios
Q4153	1	B1ABCE000015	Silicon transistors		
Q4700	1	B1ABCE000015	Silicon transistors		
Q4702	1	B1ABCE000015	Silicon transistors		
Q0900	1	B1ADCF000194	Silicon transistors		
Q1951	1	B1ADCF000194	Silicon transistors		
Q4513	1	B1ADCF000194	Silicon transistors		
Q2002	1	B1ADGJ000008	Silicon transistors		
Q4154	1	B1CFQD000001	Small signal field effect transistors (a		
Q4514	1	B1HFCEA00001	Transistor arrays (Bipolar)		
Q8100	1	B1MBEDA00027	Transistor arrays (Field effect transist		
Q8102	1	B1MBEDA00027	Transistor arrays (Field effect transist		
JS0010	1	D0GAR00J0005	Surface mounting fixed resistors , recta		
Q4151	1	DSA500100L	Silicon transistors		
Q4152	1	DSA500100L	Silicon transistors		
Q2001	1	DSC2001S0L	Silicon transistors		
Q4150	1	DSC500100L	Silicon transistors		

RESISTENCIAS

Posición	Cantidad	Clave	Descripción	S	Comentarios
R4125	1	D0GA100JA023	CHIP 10 OHM, 1/16W		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R4126	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4127	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4128	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4910	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4911	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R4912	1	D0GA100JA023	CHIP 10 OHM, 1/16W		
R0944	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R1961	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R1963	1	D0GA101JA015	CHIP 100 OHM, 1/16W		
R2006	1	D0GA102JA015	CHIP 1000 OHM, 1/16W		
R2009	1	D0GA102JA015	CHIP 1000 OHM, 1/16W		
R0945	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R0952	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R1005	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R1007	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R1008	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4002	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4182	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4554	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4711	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R4724	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R8861	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R8863	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R8871	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R8872	1	D0GA102JA023	CHIP 1000 OHM, 1/16W		
R1304	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1306	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1953	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1958	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4024	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4032	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4033	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4168	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4169	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4170	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4173	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4556	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4563	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4702	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4708	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4709	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4715	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4721	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4722	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4807	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4913	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R4921	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5003	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5030	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5031	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5104	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5181	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5606	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5607	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5608	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R5609	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8221	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8637	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8638	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8639	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8640	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8647	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8648	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8649	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8650	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8651	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8653	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8654	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8655	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8656	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8657	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8858	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8859	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8860	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8910	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8965	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8966	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8967	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R8968	1	D0GA103JA015	CHIP 10K OHM, 1/16W		
R1952	1	D0GA104JA023	CHIP 100k OHM, 1/16W		
R8755	1	D0GA104JA023	CHIP 100k OHM, 1/16W		
R3002	1	D0GA122JA023	CHIP 1.2 KOHM, 1/16W		
R4549	1	D0GA151JA023	CHIP 150 OHM, 1/16W		
R4550	1	D0GA151JA023	CHIP 150 OHM, 1/16W		

10.2 Lista de partes de reemplazo

PLACA PRINCIPAL A

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R4551	1	D0GA151JA023	CHIP 150 OHM, 1/16W		
R2024	1	D0GA152JA023	CHIP 1500 OHM, 1/16W		
R5179	1	D0GA153JA023	CHIP 15K OHM, 1/16W		
R1006	1	D0GA182JA023	CHIP 1.8K OHM, 1/16W		
R8118	1	D0GA183JA023	CHIP 18K OHM, 1/16W		
R0918	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0919	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0920	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0921	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0924	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0925	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0932	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R0933	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R4548	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R4739	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R8636	1	D0GA220JA023	CHIP 22 OHM, 1/16W		
R3013	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R3201	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R3202	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R8217	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R8218	1	D0GA221JA023	CHIP 220 OHM, 1/16W		
R2012	1	D0GA222JA023	CHIP 2.2K OHM, 1/16W		
R5152	1	D0GA222JA023	CHIP 2.2K OHM, 1/16W		
R8909	1	D0GA222JA023	CHIP 2.2K OHM, 1/16W		
R4123	1	D0GA223JA023	CHIP 22K OHM, 1/16W		
R4166	1	D0GA223JA023	CHIP 22K OHM, 1/16W		
R5007	1	D0GA223JA023	CHIP 22K OHM, 1/16W		
R8114	1	D0GA243JA023	CHIP 24K OHM, 1/16W		
R8306	1	D0GA243JA023	CHIP 24K OHM, 1/16W		
R0900	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0901	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0902	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0903	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0904	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0905	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0906	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R0907	1	D0GA272JA023	CHIP 2.7K OHM, 1/16W		
R4798	1	D0GA273JA023	CHIP 27K OHM, 1/16W		
R1000	1	D0GA331JA023	CHIP 330 OHM, 1/16W		
R8001	1	D0GA331JA023	CHIP 330 OHM, 1/16W		
R3199	1	D0GA333JA023	CHIP 33 K OHM, 1/16W		
R3200	1	D0GA333JA023	CHIP 33 K OHM, 1/16W		

R8302	1	D0GA360JA023	CHIP 36 OHM, 1/16W		
R8303	1	D0GA360JA023	CHIP 36 OHM, 1/16W		
R8702	1	D0GA390JA023	CHIP 39 OHM, 1/16W		
R8706	1	D0GA390JA023	CHIP 39 OHM, 1/16W		
R0800	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R2021	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R3101	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R3102	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R8606	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R8607	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R8914	1	D0GA472JA023	CHIP 4.7 OHM, 1/16W		
R0911	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R0951	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R1956	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2018	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2019	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2022	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2023	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R2816	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R3119	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4124	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4167	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4560	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4704	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4705	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4710	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4712	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4713	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4714	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4718	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4719	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4723	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R8866	1	D0GA473JA015	CHIP 47k OHM, 1/16W		
R4552	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R8625	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R8629	1	D0GA560JA023	CHIP 56 OHM, 1/16W		
R1959	1	D0GA561JA023	CHIP 560 OHM, 1/16W		
R5006	1	D0GA563JA023	CHIP 56 KOHM, 1/16W		
R1960	1	D0GA564JA023	CHIP 560 KOHM, 1/16W		
R1962	1	D0GA564JA023	CHIP 560 KOHM, 1/16W		
R0934	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0935	1	D0GA680JA023	CHIP 68 OHM, 1/16W		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R0936	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0937	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0938	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0939	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0940	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0941	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0942	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0943	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0947	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0948	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0949	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0962	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0963	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0964	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0965	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0966	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R0967	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R1951	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R3126	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R5175	1	D0GA680JA023	CHIP 68 OHM, 1/16W		
R8301	1	D0GA681JA023	CHIP 680 OHM, 1/16W		
R1954	1	D0GA683JA023	CHIP 68 K OHM, 1/16W		
R5002	1	D0GA683JA023	CHIP 68 K OHM, 1/16W		
R5180	1	D0GA683JA023	CHIP 68 K OHM, 1/16W		
R3192	1	D0GA820JA023	CHIP 82 OHM, 1/16W		
R3193	1	D0GA820JA023	CHIP 82 OHM, 1/16W		
R3196	1	D0GA820JA023	CHIP 82 OHM, 1/16W		
JS0026	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R2001	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R2004	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R2005	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R2020	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3015	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3016	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3017	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3018	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3019	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R3020	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R4805	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		Solo TC-L32C4X
R4806	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		Solo TC-L32C4X
R8641	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8709	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8767	1	D0GAR00J0005	CHIP 0 OHM, 1/16W		
R8108	1	D0GB100JA065	CHIP 10 OHM, 1/16W		
R8110	1	D0GB100JA065	CHIP 10 OHM, 1/16W		
R4189	1	D0GBR00J0004	CHIP 0 OHM, 1/10W		
R4158	1	D0GD271JA052	CHIP 270 OHM, 1/8W		
R4150	1	D0GD391JA052	CHIP 390 OHM, 1/8W		
R2010	1	D0GDR00J0004	CHIP 0 OHM, 1/10W		
R4915	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4916	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4917	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4918	1	D0GF3R3JA048	CHIP 3.3 OHM, 1/10W		
R4157	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8203	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8204	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8205	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8206	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8207	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8208	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8224	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R8225	1	D1BA1001A014	CHIP 1K OHM, 1/16W		
R4154	1	D1BA1002A014	CHIP 10K OHM, 1/16W		
R4155	1	D1BA1002A014	CHIP 10K OHM, 1/16W		
R4172	1	D1BA1203A014	CHIP 120 kOHM, 1/16W		
R4181	1	D1BA1302A014	CHIP 13k OHM, 1/16W		
R8703	1	D1BA1802A014	CHIP 18k OHM, 1/16W		
R4153	1	D1BA20010002	CHIP 2.2k OHM, 1/16W		
R4151	1	D1BA2201A014	CHIP 2.2k OHM, 1/16W		
R4162	1	D1BA2201A014	CHIP 2.2k OHM, 1/16W		
R4178	1	D1BA2202A014	CHIP 22k OHM, 1/16W		
R4184	1	D1BA2202A014	CHIP 22k OHM, 1/16W		
R5012	1	D1BA2202A014	CHIP 22k OHM, 1/16W		
R8200	1	D1BA2400A014	CHIP 240 OHM, 1/16W		
R8219	1	D1BA2400A014	CHIP 240 OHM, 1/16W		
R8220	1	D1BA2400A014	CHIP 240 OHM, 1/16W		
R4152	1	D1BA3002A014	CHIP 30K OHM, 1/16W		
R4171	1	D1BA3002A014	CHIP 30K OHM, 1/16W		
R4159	1	D1BA3301A014	CHIP 3.3K OHM, 1/16W		
R4160	1	D1BA3301A014	CHIP 3.3K OHM, 1/16W		
R4161	1	D1BA3601A014	CHIP 3.6K OHM, 1/16W		
R5009	1	D1BA5602A014	CHIP 5.6K OHM, 1/16W		
R8304	1	D1BA6201A014	CHIP 6.2K OHM, 1/16W		
R8305	1	D1BA6201A014	CHIP 6.2K OHM, 1/16W		

10.2 Lista de partes de reemplazo **PLACA PRINCIPAL A**

APLICA A MODELO TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

R8100	1	D1BB1301A087	CHIP 1.3 K OHM, 1/16W		
R4970	1	D1BB1403A055	CHIP 140K OHM, 1/16W		
R4971	1	D1BB1403A055	CHIP 140K OHM, 1/16W		
R8700	1	D1BB1802A087	CHIP 18K OHM, 1/16W		
R8106	1	D1BB2001A087	CHIP 2K OHM, 1/16W		
R8704	1	D1BB2002A055	CHIP 20K OHM, 1/16W		
R8102	1	D1BB2101A087	CHIP 2.1K OHM, 1/16W		
R8705	1	D1BB3001A055	CHIP 3K OHM, 1/16W		
R8707	1	D1BB5601A055	CHIP 5.6K OHM, 1/16W		
R8701	1	D1BB5601A087	CHIP 5.6K OHM, 1/16W		
R1001	1	D1BB7151A055	CHIP 7150 OHM, 1/16W		
R8104	1	D1BB8200A087	Surface mounting precision res		
R3103	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3105	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3175	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3176	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3178	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R3203	1	D1BD75R0A066	CHIP 75 OHM, 1/16W		
R4121	1	EXB28V100JX	CHIP 10 OHM,		
R4122	1	EXB28V100JX	CHIP 10 OHM,		
R4031	1	EXB28V103JX	CHIP 10K OHM,		
R8630	1	EXB28V103JX	CHIP 10K OHM,		
R4914	1	EXB28V220JX	CHIP 22 OHM,		
R8222	1	EXB28V330JX	CHIP 33 OHM,		
R8223	1	EXB28V330JX	CHIP 33 OHM,		
R0910	1	EXB28V472JX	CHIP 4.7k OHM,		
R8624	1	EXB28V560JX	CHIP 56 OHM,		
R8632	1	EXB28V560JX	CHIP 56 OHM,		
R8634	1	EXB28V560JX	CHIP 56 OHM,		
R3123	1	EXB28V680JX	CHIP 68 OHM,		
R8924	1	EXB28V680JX	CHIP 68 OHM,		
R8925	1	EXB28V680JX	CHIP 68 OHM,		
R4046	1	EXB28VR000X	CHIP 0 OHM,		
R4047	1	EXB28VR000X	CHIP 0 OHM,		
R4048	1	EXB28VR000X	CHIP 0 OHM,		
R4049	1	EXB28VR000X	CHIP 0 OHM,		
R8438	1	EXB2HV103JV	CHIP 10K OHM,		
R8915	1	EXB2HV680JV	CHIP 68 OHM,		

OTROS

Posición	Cantidad	Clave	Descripción	S	Comentarios
TU4800A	1	ENGS6302D5F	TV tuners	S	
X8300	1	H0J245500113	Surface crystal resonators		
JK1031	1	K1FY104E0009	connectors for I/F		
JK1000A	1	K1FY119D0016	connectors for I/F		
JK1001A	1	K1FY119D0016	connectors for I/F		
JK3703	1	K1FY315A0011	connectors for I/F		
A10	1	K1KA07B00135	connectors for I/F		
CN0100	1	K1KA14A00248	connectors for I/F		
A02	1	K1KY04AA0719	connectors for I/F		
A12	1	K1KY04B00013	connectors for I/F		
A09	1	K1KY15BA0324	connectors for I/F		
A14	1	K1MN55BA0076	connectors for I/F		
JK8850	1	K1NA12E00016	connectors for I/F		
JK3000A	1	K1U511A00013	connectors units, different typ		
PA4150	1	K5H1622A0031	Surface mounting fuses		

10.3 Lista de partes de reemplazo **PLACA DE PODER**

APLICA A MODELO TC-L32C4X TC-L32C4Y [TXN/P1NWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

CAPACITORES

Posición	Cantidad	Clave	Descripción	S	Comentarios
C7861	1	ECCT3G150JGV	4000V 15pF,J		
C7862	1	ECCT3G150JGV	4000V 15pF,J		
C7863	1	ECCT3G150JGV	4000V 15pF,J		
C7864	1	ECCT3G150JGV	4000V 15pF,J		
C7865	1	ECCT3G150JGV	4000V 15pF,J		
C7866	1	ECCT3G150JGV	4000V 15pF,J		
C7867	1	ECCT3G150JGV	4000V 15pF,J		
C7868	1	ECCT3G150JGV	4000V 15pF,J		
C7214	1	F0C2H105A019	500V 1.0µF,K	S	
C7804	1	F0C2H105A019	500V 1.0µF,K	S	
C7104	1	F0CAF224A124	315V 0.22µF,K	S	
C7105	1	F0CAF224A124	315V 0.22µF,K	S	
C7102	1	F1A2E471A003	C 470pF, K, 250V	S	
C7103	1	F1A2E471A003	C 470pF, K, 250V	S	
C7308	1	F1A2E471A003	C 470pF, K, 250V	S	
C7850	1	F1A2E471A003	C 470pF, K, 250V	S	
C7202	1	F1A3A221A060	C 220pF, K, 1000V		
C7210	1	F1A3A221A060	C 220pF, K, 1000V		
C7832	1	F1A3A222A060	C 2200pF, K, 1000V		
C7508	1	F1A3A471A060	C 470pF, J, 1000V		
C7509	1	F1A3A471A060	C 470pF, J, 1000V		
C7827	1	F1A3A471A060	C 470pF, J, 1000V		
C7828	1	F1A3A471A060	C 470pF, J, 1000V		
C7301	1	F1B3D470A099	C 47pF, J, 2000V		
C7304	1	F1J1E105A231	C 1µF, K, 25V		
C7502	1	F1J1E105A231	C 1µF, K, 25V		
C7503	1	F1J1E105A231	C 1µF, K, 25V		
C7816	1	F1J1E105A231	C 1µF, K, 25V		
C7305	1	F1J1H101A709	C 100pF, J, 50V		
C7809	1	F1J1H101A709	C 100pF, J, 50V		
C7810	1	F1J1H101A709	C 100pF, J, 50V		
C7811	1	F1J1H101A709	C 100pF, J, 50V		
C7812	1	F1J1H101A709	C 100pF, J, 50V		
C7813	1	F1J1H101A709	C 100pF, J, 50V		
C7814	1	F1J1H101A709	C 100pF, J, 50V		
C7815	1	F1J1H101A709	C 100pF, J, 50V		
C7833	1	F1J1H101A709	C 100pF, J, 50V		
C7203	1	F1J1H102A721	C 1000pF, J, 50V		
C7302	1	F1J1H102A721	C 1000pF, J, 50V		
C7206	1	F1J1H1030007	C 10000pF, J, 50V		

Posición	Cantitdad	Clave	Descripción	S	Comentarios
C7207	1	F1J1H1030007	C 10000pF, J, 50V		
C7220	1	F1J1H1030007	C 10000pF, J, 50V		
C7221	1	F1J1H1030007	C 10000pF, J, 50V		
C7505	1	F1J1H1030007	C 10000pF, J, 50V		
C7817	1	F1J1H1030007	C 10000pF, J, 50V		
C7818	1	F1J1H1030007	C 10000pF, J, 50V		
C7821	1	F1J1H1030007	C 10000pF, J, 50V		
C7826	1	F1J1H1030007	C 10000pF, J, 50V		
C7831	1	F1J1H1030007	C 10000pF, J, 50V		
C7204	1	F1J1H104A717	C 10000pF, J, 50V		
C7501	1	F1J1H104A717	C 0.1µF, J, 50V		
C7512	1	F1J1H104A717	C 0.1µF, J, 50V		
C7520	1	F1J1H104A717	C 0.1µF, J, 50V		
C7521	1	F1J1H104A717	C 0.1µF, J, 50V		
C7819	1	F1J1H104A717	C 0.1µF, J, 50V		
C7806	1	F1J1H152A721	C 1500pF, J, 50V		
C7808	1	F1J1H152A721	C 1500pF, J, 50V		
C7842	1	F1J1H152A721	C 1500pF, J, 50V		
C7843	1	F1J1H152A721	C 1500pF, J, 50V		
C7844	1	F1J1H152A721	C 1500pF, J, 50V		
C7845	1	F1J1H152A721	C 1500pF, J, 50V		
C7846	1	F1J1H152A721	C 1500pF, J, 50V		
C7847	1	F1J1H152A721	C 1500pF, J, 50V		
C7201	1	F1J1H222A721	C 2200pF, J, 50V		
C7205	1	F1J1H2240009	C 0.22µF, J, 50V		
C7218	1	F1J1H2240009	C 0.22µF, J, 50V		
C7219	1	F1J1H2240009	C 0.22µF, J, 50V		
C7303	1	F1J1H472A702	C 4700pF, J, 50V		
C7834	1	F1J1H472A702	C 4700pF, J, 50V		
C7835	1	F1J1H472A702	C 4700pF, J, 50V		
C7208	1	F1J1H474A757	C 0.47µF, J, 50V		
C7802	1	F1J1H474A757	C 0.47µF, J, 50V		
C7820	1	F1J1H474A757	C 0.47µF, J, 50V		
C7822	1	F1J1H474A757	C 0.47µF, J, 50V		
C7514	1	F2A1E101A089	C 100µF, M, 25V		
C7513	1	F2A1E6810034	C 680µF, M, 25V		
C7307	1	F2A1H330A122	C 33µF, M, 50V		
C7309	1	F2A1H330A122	C 33µF, M, 50V		
C7212	1	F2A2W1010011	C 100µF, M, 450V		

DIODOS

Posición	Cantidad	Clave	Descripción	S	Comentarios

10.3 Lista de partes de reemplazo **PLACA DE PODER**

APLICA A MODELO TC-L32C4X TC-L32C4Y [TXN/P1NWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

DIODOS

Posición	Cantidad	Clave	Descripción	S	Comentarios
D7801	1	B0ADCK000001	DIODE		
D7810	1	B0ADCK000001	DIODE		
D7315	1	B0BB140A0011	DIODO		
D7204	1	B0BC015A0336	DIODO		
D7310	1	B0BC015A0336	DIODO		
D7314	1	B0BC015A0336	DIODO		
D7318	1	B0BC015A0336	DIODO		
D7813	1	B0BC015A0336	DIODO		
D7317	1	B0BC027A0336	DIODO		
D7205	1	B0EAMR000020	DIODO		
D7203	1	B0ECKM000038	DIODO		
D7309	1	B0ECKM000038	DIODO		
D7319	1	B0ECKM000038	DIODO		
D7102	1	B0FBAT000021	DIODO	S	
D7302	1	B0HAGQ000001	DIODO		
D7303	1	B0HAGQ000001	DIODO		
D7505	1	B0HAMM000108	DIODO		
D7503	1	B0HESM000002	DIODO		
D7811	1	B0JCKG000002	DIODE		
D7812	1	B0JCKG000002	DIODE		
D7101	1	D4EAY6210003	ERZV10V621C2	S	
D7103	1	D4EAY6210003	ERZV10V621C2	S	
D7208	1	DA2J10100L	DIODE		
D7209	1	DA2J10100L	DIODE		
D7507	1	DA2J10100L	DIODE		
D7806	1	DA6X103Q0R	DIODO		
D7807	1	DA6X103Q0R	DIODO		
D7808	1	DA6X103Q0R	DIODO		
D7809	1	DA6X103Q0R	DIODO		
D7207	1	DZ2J068M0L	DIODE		
D7304	1	DZ2J068M0L	DIODE		
D7814	1	DZ2J150M0L	Voltage regulation diodes		
D7504	1	DZ2J220M0L	Voltage regulation diodes		

CIRCUITOS INTEGRADOS

Posición	Cantidad	Clave	Descripción	S	Comentarios
IC7301	1	C0DABYY00034	IC		
IC7201	1	C0DBBYY00033	IC		
IC7801	1	C0DBZYY00413	ICs for power supply		
IC7501	1	C0DBZYY00486	ICs For Power Supply		

BOBINAS

Posición	Cantidad	Clave	Descripción	S	Comentarios
LF7102	1	G0B103H00010	FILTRO DE LINEA	S	
LF7103	1	G0B103H00010	FILTRO DE LINEA	S	
LF7101	1	G0B650H00003	LINE FILTER	S	
L7303	1	J0JKA0000038	BEAD CORE		
L7803	1	J0JKA0000038	BEAD CORE		
L7104	1	J0JKB0000034	BEAD CORE		
L7105	1	J0JKB0000034	BEAD CORE		
L7201	1	J0JKB0000034	BEAD CORE		
L7203	1	J0JKB0000034	BEAD CORE		
L7301	1	J0JKB0000034	BEAD CORE		
L7308	1	J0JKB0000034	BEAD CORE		
L7804	1	J0JKB0000034	BEAD CORE		
L7808	1	J0JKB0000034	BEAD CORE		
L7809	1	J0JKB0000034	BEAD CORE		
CF7101	1	D4CAY3R9A004	BOBINA	S	

TRANSISTORES

Posición	Cantidad	Clave	Descripción	S	Comentarios
Q7203	1	B1ABBE000003	Silicon transistors		
Q7303	1	B1ABBE000003	Silicon transistors		
Q7501	1	B1ABBE000003	Silicon transistors		
Q7502	1	B1ABBE000003	Silicon transistors		
Q7505	1	B1ABBE000003	Silicon transistors		
Q7202	1	B1ADCE000027	Silicon transistors		
Q7301	1	B1ADCE000027	Silicon transistors		
Q7302	1	B1ADCE000027	Silicon transistors		
Q7801	1	B1ADCE000027	Silicon transistors		
Q7802	1	B1ADCE000027	Silicon transistors		
Q7201	1	B1CERR000057	TRANSISTOR		
Q7803	1	B1CFRR000016	TRANSISTOR		
Q7804	1	B1CFRR000016	TRANSISTOR		
Q7503	1	B1CHRE000008	TRANSISTOR		
Q7504	1	B1CHRE000008	TRANSISTOR		
Q7306	1	B1DFDD000019	TRANSISTOR		

RESISTENCIAS

Posición	Cantidad	Clave	Descripción	S	Comentarios
R7335	1	D0B1106JA033	Metal 10M OHM 1W	S	
R7801	1	D0GD101JA052	CHIP 100 OHM, 1/8W		
R7802	1	D0GD101JA052	CHIP 100 OHM, 1/8W		
R7205	1	D0GD101JA059	CHIP 100 OHM, 1/8W		
R7506	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		

10.3 Lista de partes de reemplazo **PLACA DE PODER**

APLICA A MODELO TC-L32C4X TC-L32C4Y [TXN/P1NWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

R7821	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		
R7832	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		
R7833	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		
R7835	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		
R7836	1	D0GD102JA052	CHIP 1000 OHM, 1/8W		
R7233	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7234	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7302	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7318	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7504	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7516	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7519	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7808	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7809	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7810	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7811	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7812	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7813	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7814	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7815	1	D0GD103JA052	CHIP 10 KOHM, 1/8W		
R7209	1	D0GD104JA052	CHIP 100 KOHM, 1/8W		
R7512	1	D0GD152JA052	CHIP 1.5 KOHM, 1/8W		
R7322	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7329	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7330	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7509	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7515	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7517	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7520	1	D0GD153JA052	CHIP 15 KOHM, 1/8W		
R7518	1	D0GD154JA052	CHIP 150 KOHM, 1/8W		
R7820	1	D0GD1R0JA052	CHIP 1 OHM, 1/8W		
R7806	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7807	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7837	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7838	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7839	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7840	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7841	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7842	1	D0GD203JA052	CHIP 20 kOHM, 1/8W		
R7208	1	D0GD220JA059	CHIP 22 OHM, 1/4W		
R7507	1	D0GD222JA052	CHIP 2.2 kOHM, 1/8W		
R7511	1	D0GD222JA052	CHIP 2.2 kOHM, 1/8W		

R7301	1	D0GD223JA052	CHIP 22 kOHM, 1/8W		
R7345	1	D0GD223JA052	CHIP 22 kOHM, 1/8W		
R7341	1	D0GD331JA052	CHIP 330 OHM, 1/8W		
R7207	1	D0GD470JA052	CHIP 47 OHM, 1/8W		
R7303	1	D0GD470JA059	CHIP 47 OHM, 1/4W		
R7505	1	D0GD471JA052	CHIP 470 OHM, 1/8W		
R7232	1	D0GD472JA052	CHIP 4.7 KOHM, 1/8W		
R7510	1	D0GD472JA052	CHIP 4.7 KOHM, 1/8W		
R7203	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7221	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7315	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7316	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7344	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7503	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7822	1	D0GD473JA052	CHIP 47 KOHM, 1/8W		
R7206	1	D0GD563JA052	CHIP 56 KOHM, 1/8W		
R7831	1	D0GD680JA052	CHIP 68 OHM, 1/8W		
R7834	1	D0GD680JA052	CHIP 68 OHM, 1/8W		
R7843	1	D0GD750JA052	CHIP 75 OHM, 1/8W		
R7844	1	D0GD750JA052	CHIP 75 OHM, 1/8W		
R7317	1	D0GD822JA052	CHIP 8.2 KOHM, 1/8W		
R7328	1	D0GD822JA052	CHIP 8.2 KOHM, 1/8W		
JA1	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA10	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA11	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA12	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA13	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA14	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA2	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA3	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA4	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA5	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA6	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA7	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA8	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
JA9	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
R7342	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
R7502	1	D0GDR00J0004	CHIP 0 OHM, 1/8W		
R7804	1	D1BD1002A066	CHIP 10 KOHM, 1/8W		
R7818	1	D1BD1002A066	CHIP 10 KOHM, 1/8W		
R7823	1	D1BD1002A066	CHIP 10 KOHM, 1/8W		
R7231	1	D1BD1003A066	CHIP 100 KOHM, 1/8W		

10.3 Lista de partes de reemplazo **PLACA DE PODER**

APLICA A MODELO TC-L32C4X TC-L32C4Y [TXN/P1NWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales.

R7816	1	D1BD1003A066	CHIP 100 KOHM, 1/8W		
R7819	1	D1BD1003A066	CHIP 100 KOHM, 1/8W		
R7824	1	D1BD1003A066	CHIP 100 KOHM, 1/8W		
R7825	1	D1BD1003A066	CHIP 100 KOHM, 1/8W		
R7826	1	D1BD1003A066	CHIP 100 KOHM, 1/8W		
R7514	1	D1BD1202A066	CHIP 12 KOHM, 1/8W		
R7817	1	D1BD1202A066	CHIP 12 KOHM, 1/8W		
R7223	1	D1BD1603A066	CHIP 160 KOHM, 1/8W		
R7305	1	D1BD1803A066	CHIP 180 KOHM, 1/8W		
R7313	1	D1BD1803A066	CHIP 180 KOHM, 1/8W		
R7803	1	D1BD2702A066	CHIP 270 KOHM, 1/8W		
R7216	1	D1BD3901A066	CHIP 3.9 KOHM, 1/8W		
R7829	1	D1BD4700A066	CHIP 470 OHM, 1/8W		
R7830	1	D1BD4700A066	CHIP 470 OHM, 1/8W		
R7215	1	D1BD5102A066	CHIP 51 KOHM, 1/8W		
R7805	1	D1BD5102A066	CHIP 51 KOHM, 1/8W		
R7828	1	D1BD5102A066	CHIP 51 KOHM, 1/8W		
R7314	1	D1BD5103A066	CHIP 510 KOHM, 1/8W		
R7508	1	D1BD5601A066	CHIP 5.6 KOHM, 1/8W		
R7513	1	D1BD8202A066	CHIP 820 KOHM, 1/8W		
R7101	1	ERJ14YJ105U	R 1M OHM, 1/4W	S	
R7102	1	ERJ14YJ105U	R 1M OHM, 1/4W	S	
R7103	1	ERJ14YJ105U	R 1M OHM, 1/4W	S	
R7211	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7213	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7217	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7219	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7224	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7226	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7229	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7230	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7306	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7308	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7310	1	ERJ8ENF2204V	R 2200 KOHM, 1/4W		
R7324	1	ERX1SJ1R0V	Res 1 ohm 1 W		
R7201	1	ERX1SJR22V	Res 0.22 ohm 1 W		
R7202	1	ERX1SJR22V	Res 0.22 ohm 1 W		
R7346	1	ERX2SJR82V	Res 0.82 ohm 1 W		

OTROS

Posición	Cantidad	Clave	Descripción		Comentarios
PC7301	1	B3PAA0000363	OPTOACOPLADOR	S	
PC7302	1	B3PAA0000363	OPTOACOPLADOR	S	
PC7303	1	B3PAA0000363	OPTOACOPLADOR	S	
T7801	1	G4DYA0000335	TRANSFORMADOR	S	
T7302	1	G4DYA0000338	TRANSFORMADOR	S	
T7201	1	G4DYA0000339	TRANSFORMADOR	S	
T7804	1	G4EYA0000037	Current transformers	S	
T7802	1	G4FYA0000020	transformers	S	
T7803	1	G4FYA0000020	transformers	S	
P1	1	K1KA02B00295	CONNECTOR		
P2	1	K1KA12BA0237	CONECTOR		
P5	1	K1KY02BA0249	CONECTOR		
P6	1	K1KY02BA0249	CONECTOR		
P7	1	K1KY02BA0249	CONECTOR		
P8	1	K1KY02BA0249	CONECTOR		
ZA7001	1	K4AD01A00003	Terminals		
ZA7002	1	K4AD01A00003	Terminals		
ZA7003	1	K4AD01A00003	Terminals		
ZA7004	1	K4AD01A00003	Terminals		
F7101	1	K5D502BNA005	FUSE	S	
PA7551	1	K5H502YA0063	SURFACE FUSES		

10.4 Lista de partes de reemplazo **PLACA KA LED PANEL**

APLICA A MODELO TC-L32C4X, TC-L32C4Y [TZRNP03NWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

CAPACITORES

Posición	Cantidad	Clave	Descripción	Comentarios
C2801	1	F2G0J470A019	aluminum non-solid elec	
C2802	1	F1G1C1030008	aluminum non-solid elec	
C2805	1	F1H1C104A041	aluminum non-solid elec	
D2800B	1	B3AAB0000379	Light emitting devices	
KA10	1	K1KA07B00135	connectors for in-equipment use	
Q2800	1	B1ABCE000015	Silicon transistors	
Q2802	1	B1ABCE000015	Silicon transistors	
R2801	1	D0GA473JA015	Surface mounting fixed resistors	
R2802	1	D0GA223JA023	Surface mounting fixed resistors	
R2805	1	D1BA1201A014	Surface mounting precision	
R2806	1	D0GA470JA023	Surface mounting fixed resistors	
R2807	1	D0GA562JA023	Surface mounting fixed resistors	
R2808	1	D0GA184JA023	Surface mounting fixed resistors	
R2809	1	D0GA103JA015	Surface mounting fixed resistors	
R2810	1	D0GA104JA023	Surface mounting fixed resistors	
R2811	1	D0GA103JA015	Surface mounting fixed resistors	
RM2800	1	PNJ4815M01TV	Photo detectors (Photo ICs)	
SN2800	1	B3JB00000078	Photo detectors (Photo ICs)	

11.4 Lista de partes de reemplazo **PLACA GK PANEL DE CONTROL**

APLICA A MODELO TC-L32C4X, TC-L32C4Y [TZRNP03NWUX].

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

CAPACITORES				
Posición	**Cantidad**	**Clave**	**Descripción**	**Comentarios**
C2801	1	F2G0J470A019	aluminum non-solid elec	
C2802	1	F1G1C1030008	aluminum non-solid elec	
C2805	1	F1H1C104A041	aluminum non-solid elec	
D2800B	1	B3AAB0000379	Light emitting devices	
KA10	1	K1KA07B00135	connectors for in-equipment use	
Q2800	1	B1ABCE000015	Silicon transistors	
Q2802	1	B1ABCE000015	Silicon transistors	
R2801	1	D0GA473JA015	Surface mounting fixed resistors	
R2802	1	D0GA223JA023	Surface mounting fixed resistors	
R2805	1	D1BA1201A014	Surface mounting precision	
R2806	1	D0GA470JA023	Surface mounting fixed resistors	
R2807	1	D0GA562JA023	Surface mounting fixed resistors	
R2808	1	D0GA184JA023	Surface mounting fixed resistors	
R2809	1	D0GA103JA015	Surface mounting fixed resistors	
R2810	1	D0GA104JA023	Surface mounting fixed resistors	
R2811	1	D0GA103JA015	Surface mounting fixed resistors	
RM2800	1	PNJ4815M01TV	Photo detectors (Photo ICs)	
SN2800	1	B3JB00000078	Photo detectors (Photo ICs)	

10.6 Lista de partes de reemplazo **PARTES MECANICAS**

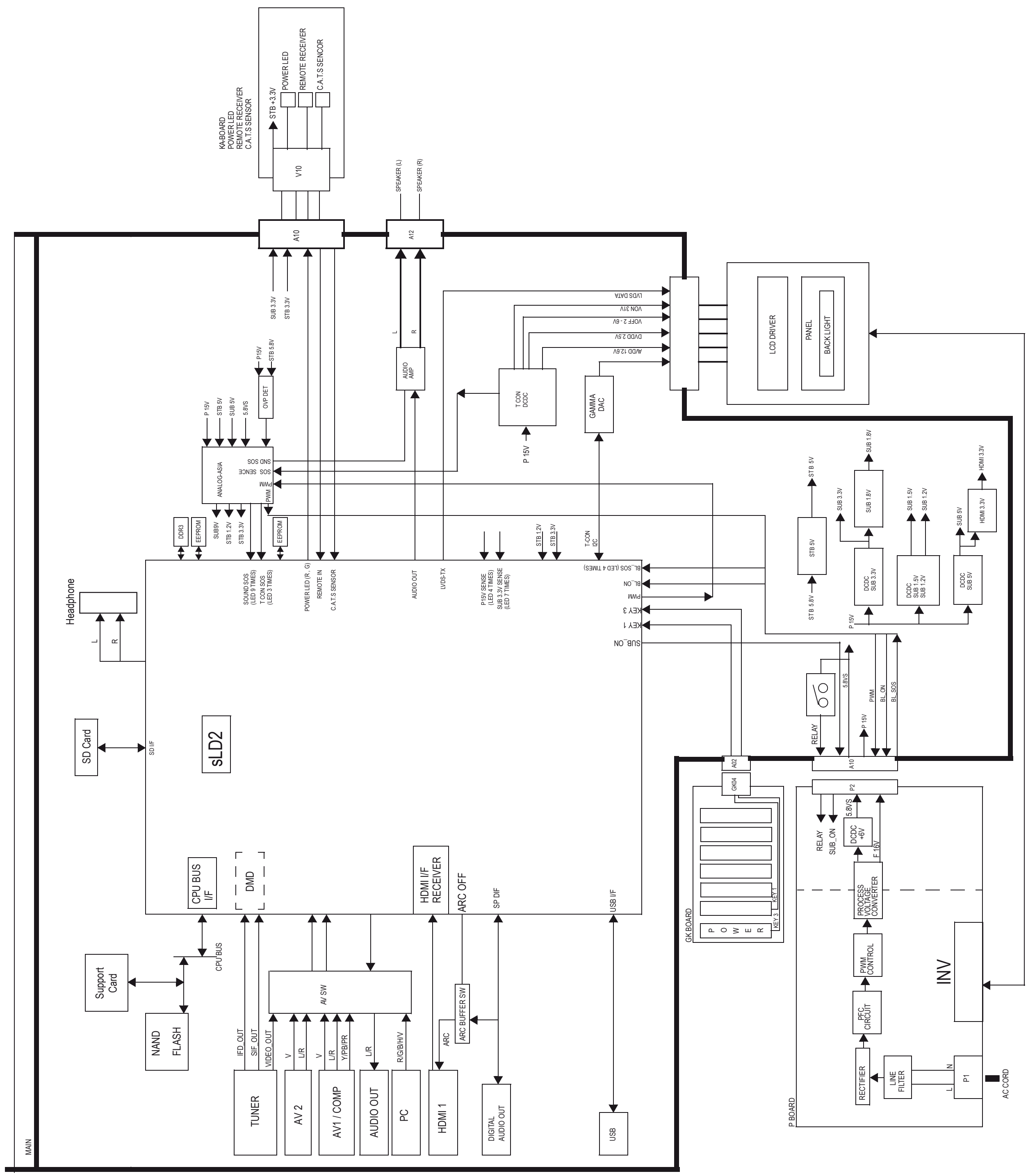
APLICA A MODELO TC-L32C4X, TC-L32C4Y.

Nota: sea cuidadoso en la selección de las partes las diferencias están descritas en color rojo, todas las demás son iguales para ambos modelos.

MECANICO

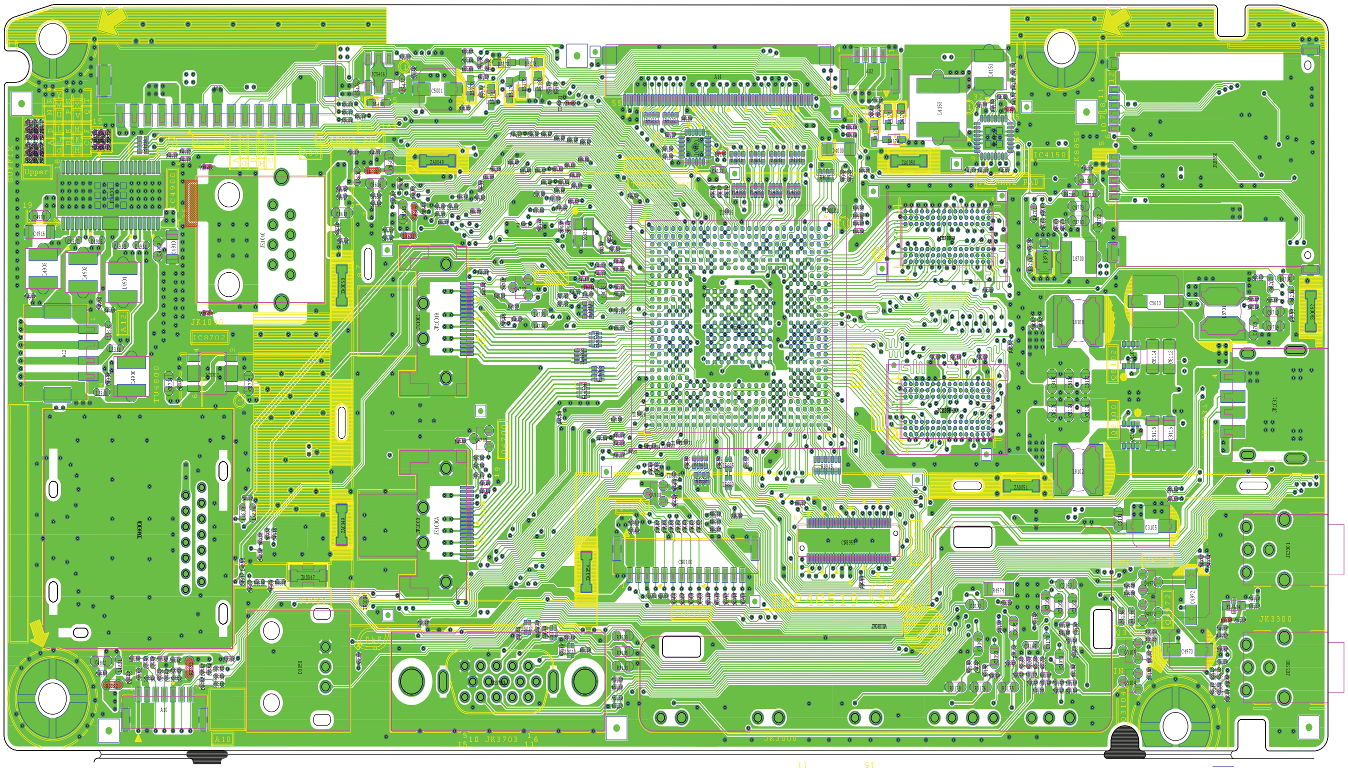
Posición	Cantidad	Clave	Descripción	S	Comentarios
	1	K2CB2YY00035	AC CORD	S	Solo TC-L32C4X
	1	K2CQ2YY00085	AC CORD	S	Solo TC-L32C4Y
	1	K2DR42E00007	AC PLUG ADAPTER		Solo TC-L32C4Y
	2	L0AA10B00003	SPEAKER UNIT		
	1	N2QAYB000570	REMOTE TRANSMITTER		
	1	TBL3AX0013	PEDESTAL ASS'Y		
	1	TBL5ZX0211	STAND MTG ASS'Y		
	1	TBM3AU032	CONTROL KEY SHEET		
	14	THEJ036J	M3 SCREW(A5/P7)		
	1	TKK3AC5002	LED PANEL		
	1	TKK4G8611	COVER (Adj. WINDOW)		
	1	TKP3AA00101-S	SIDE AV BRACKET		
	2	TKZ4GX5034	VESA METAL(BC)		
	2	TKZ4GX5056-A	VESA METAL TOP		
	1	TKZ4GX5105	METAL BRACKET BOTTOM		
	2	TMK4GA020	AL TAPE		
	3	TMK4GA041	FELT		
	4	TMM4GJ007	RUBBER BUCH		
	1	TMME268	CLAMPER(V1/VESA1/BTM7)		
	1	TPE4GH020-1	POLYBAG(PEDE)		
	1	TPE4GH031	SET COVER		
	1	TQB3AC0017	OPERATING MANUAL	S	Solo TC-L32C4X
	1	TQB3AC0018	OPERATING MANUAL	S	Solo TC-L32C4Y
	1	TSCKE0060001	LVDS CABLE		
	1	TTU3AA0043	BACKCOVER COMPLETE ASSEMBLY		Solo TC-L32C4X
	1	TTY3AA0042	CABINET COMPLETE ASS'Y		Solo TC-L32C4X
	1	TTU3AA0044	BACKCOVER COMPLETE ASSEMBLY		Solo TC-L32C4Y
	1	TTY3AA0042A	CABINET COMPLETE ASS'Y		Solo TC-L32C4Y
	1	TXFPE01LUUK-A	KIT TORNILLOS PEDESTAL CON SET		
	4	XSS4+16FJK	SCREW(PEDE4)		
	1	TXFPE02LTUK	PEDESTAL ACCESORRIES ASS'Y		
	1	TXJA02QMUU	A02-GK01		
	1	TXJA09QMUU	A09-P2		
	1	TXJA10QMUU	A10-KA10		
	1	TXN/P1NWUX	P PRINT(FINISHED)	S	
	1	TZRNP01NWUX	A-PCB ASS'Y KIT FOR PANAMEX	S	Solo TC-L32C4X
	1	TZRNP01MGUL	A-PCB ASS'Y KIT FOR PANAMEX	S	Solo TC-L32C4Y
	1	TZRNP03NWUX	KA-PCB ASS'Y FIT FOR PANAMEX	S	
	1	TZRNP04NWUX	GK-PCB ASS'Y KIT FOR PANAMEX	S	
	1	VVX32H121G00	LCD PANEL		
	24	XTV3+12JFJ	SCREW(BTM_PANEL4)		

11. DIAGRAMA A BLOQUES APLICA SERIE C4 (1/1).

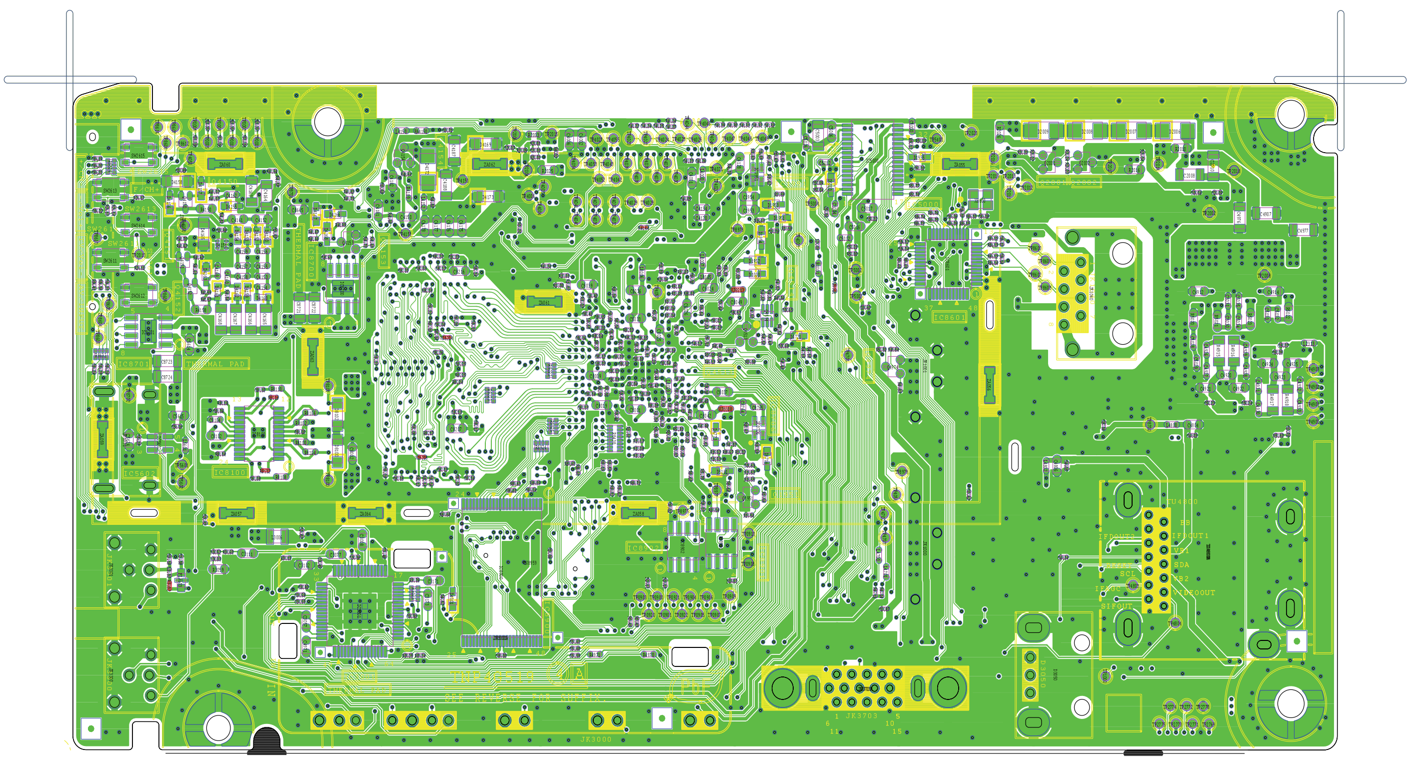


12 PLACA A PRINCIPAL

12.1 TC-L32C4X [TZRNP01NWUX], TC-L32C4Y [TZRNP01MGUL],

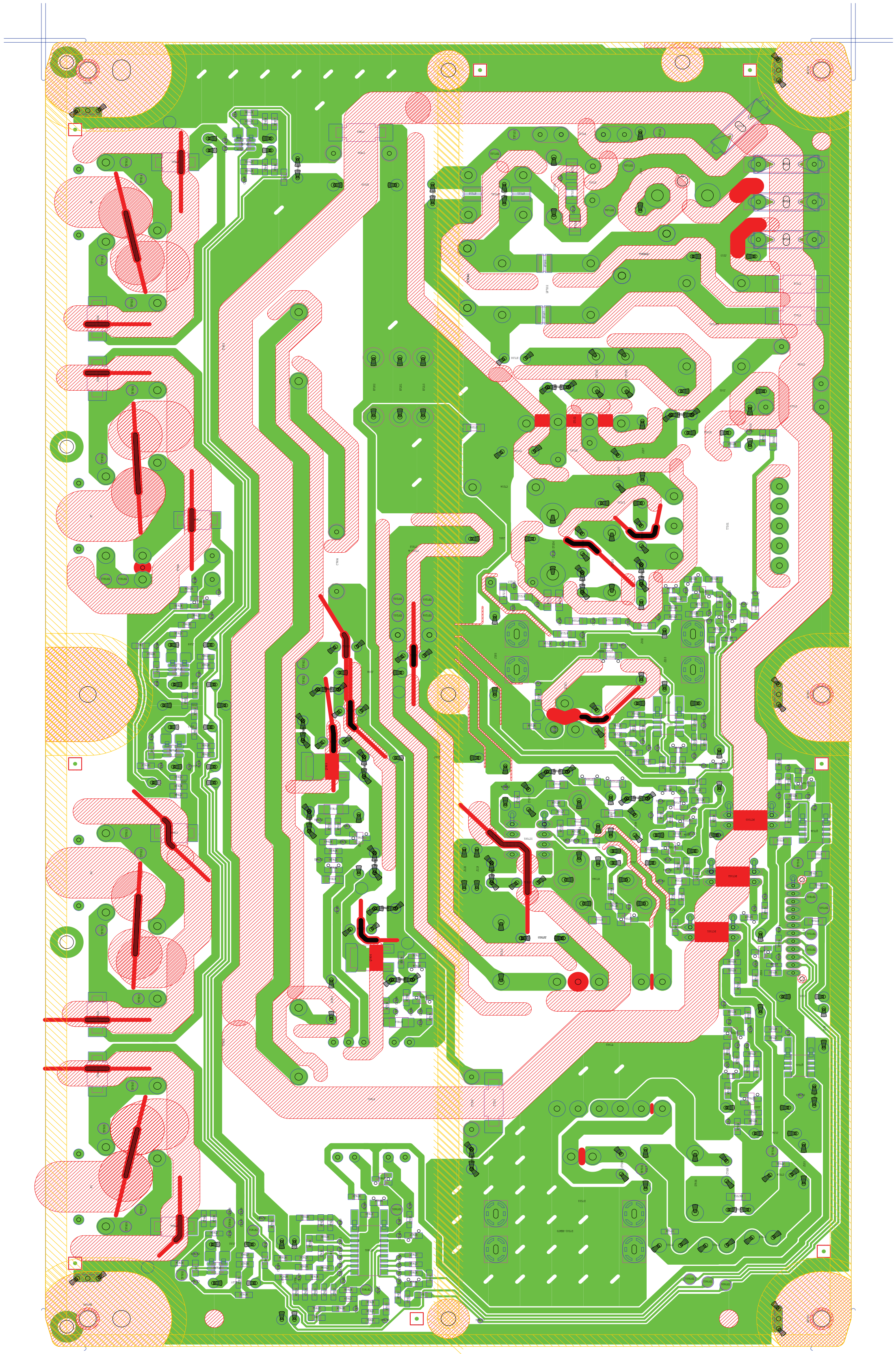


PLACA DE PRINCIPAL A VISTA POSTERIOR.



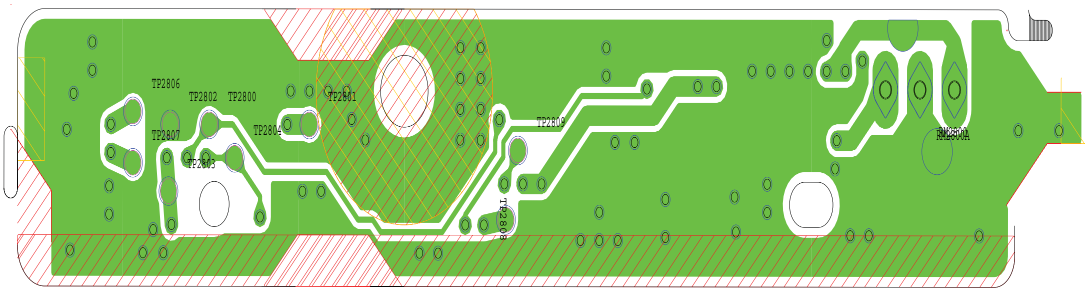
13 LAYOUT PLACA DE PODER

13.1 VISTA POSTERIOR
TC-L32C4X TC-L32C4Y [TXN/P1NWUX],

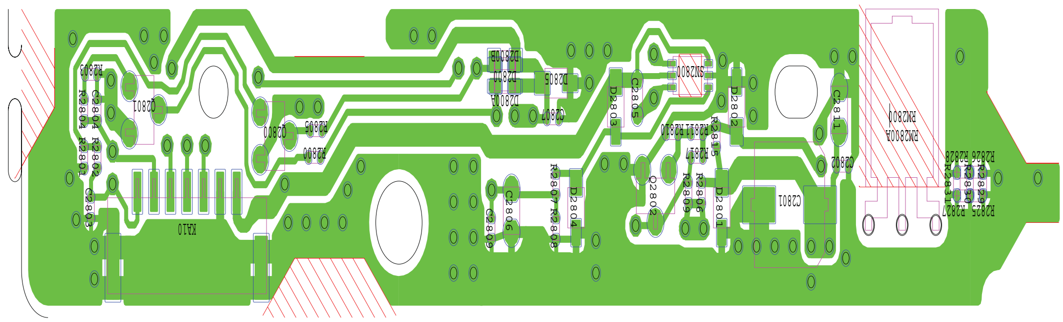


14 PLACA KA LED PANEL
APLICA A TC-L32C4X TC-L32C4Y [TZRNP03NWUX].

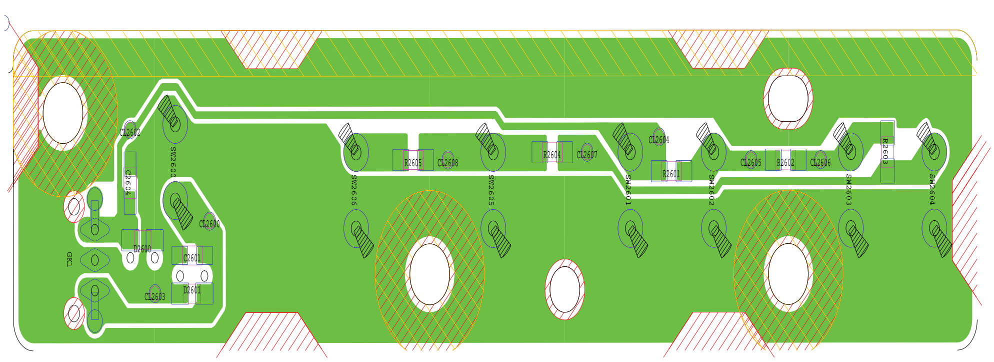
PLACA KA VISTA TRASEREA



PLACA KA VISTA FRONTAL



15 PLACA GK PANEL DE CONTROL
APLICA A TC-L32C4X TC-L32C4Y [TZRNP04NWUX].



16 Diagramas

16.1 Diagrama para chasis LA15.

> **Aviso Importante de Seguridad**
>
> Los componentes identificados por una marca ⚠ tendrán características especiales importantes para seguridad. Cuando reemplace alguno de estos componentes, use las partes especificadas por el fabricante.

Notas:

1. Resistencia:

Todas las resistencias de carbon son de 1/4W, a menos que marque lo contrario:

La unidad es OHM [Ω] k=1,000, M=1,000,000)

- ⧄ Inflamable
- ○ Sólido
- △ Alambre dañado
- ⊠ Óxido Metal
- ◎ Película de Metal
- ⊗ Fusible

2. Capacitor:

Todas los capacitores cerámicos son de 50V, a menos que marque lo siguiente:

La unidad es µF, a menos que note lo contrario:

- ⊗ Compensación de Temperatura
- Ⓜ Poliester
- ⓜ Poliester Metálico
- ⊠ Polisacárido
- NP Bipolar
- \+ Electrolítico
- Ⓣ Dipped Tantalum
- Ⓩ Diodo Tipo Zener

3. Bobina

La unidad de inductancia es µH, a menos que indique otra cosa.

4. Punto de Prueba

:Posición de Punto de Prueba

5. Símbolo de Tierra

: Chasis de Tierra Fria

Línea de Tierra (Caliente)

6. Medida de Voltaje

El voltaje es medido por un Voltímetro DC

Las condiciones de medida son las siguientes:

Fuente de Alimentación automatica .... TC-L32C4X: 110~127 Vca, 50~60Hz
TC-L32C4Y: 220 Vca, 50~60Hz
Señal Recibida... Barra de Señal de Color
Todos los Controles del Usuario.......................... Posición Máxima

7. Número en el círculo rojo indica el número en la forma de onda (Vea el patrón en la Tabla)
8. Cuando la flecha se encuentre señalando ( ), la conexión se encuentra fácilmente en dirección a la flecha.
9. Indica el flujo mayor señalado : Video : Audio
10. Este diagrama esquemático es el último en el momento de imprimirse y está sujeto a cambio sin previo aviso.

Comentarios:

1. El circuito de poder contiene una área del circuito (Tierra Caliente) que usa una fuente de alimentación separada para aislar la conexión de Tierra Fria.

Precauciones:

a) No toque la parte ó las partes de tierra caliente con las de tierra fría al mismo tiempo, ya que usted puede sufrir daños.

b) No conecte al mismo tiempo un instrumento a los circuitos calientes ó frios, como un osciloscopio. Conecte el instrumento de tierra a la conexión de tierra correcto.

c) Asegúrese de desconectar la clavija del Televisor antes de retirar el chasis.

d) Nota importante :

Use el esquemático anexo solo para referencia del circuito y para referencia con el numero de parte use siempre la lista de partes.

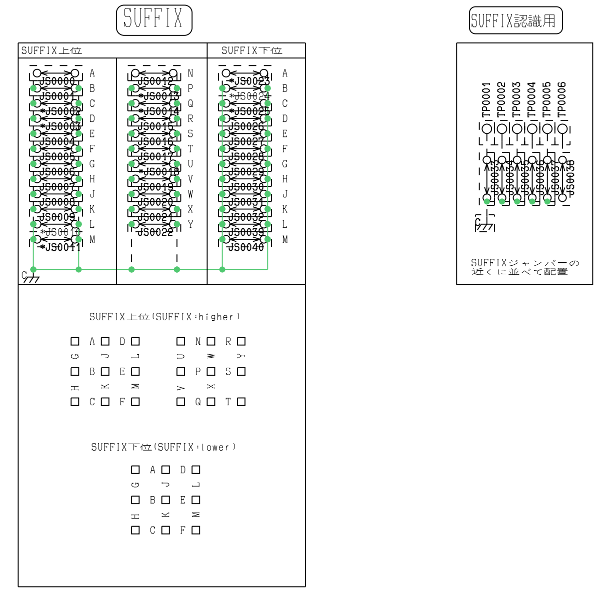
[Block Name]

Information

REF No. 0000 - 0049

[Net Variation]

TNP4G519



SHEET2		CRNo:IC9401
SHEET3		CRNo:9401-9549
SHEET4		CRNo:9801-9899
SHEET5		CRNo:9001-9149
SHEET6		CRNo:9601-9659
		CRNo:9661-9699
		CRNo:9701-9799
SHEET7		CRNo:9151-9199
		CRNo:9201-9249
		SHEET3と共用
SHEET8		CRNo:9551-9599
		CRNo:9901-9979
		CRNo:9981-9989
SHEET9		CRNo:9301-9399

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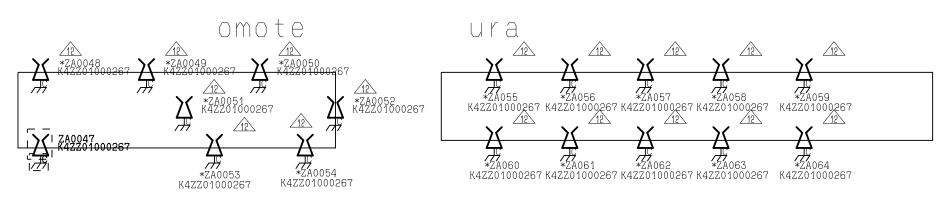
[Block Name]

Clip.Lag

REF No. 0050 - 0099

[Net Variation]

TNP4G519



[Block Name]

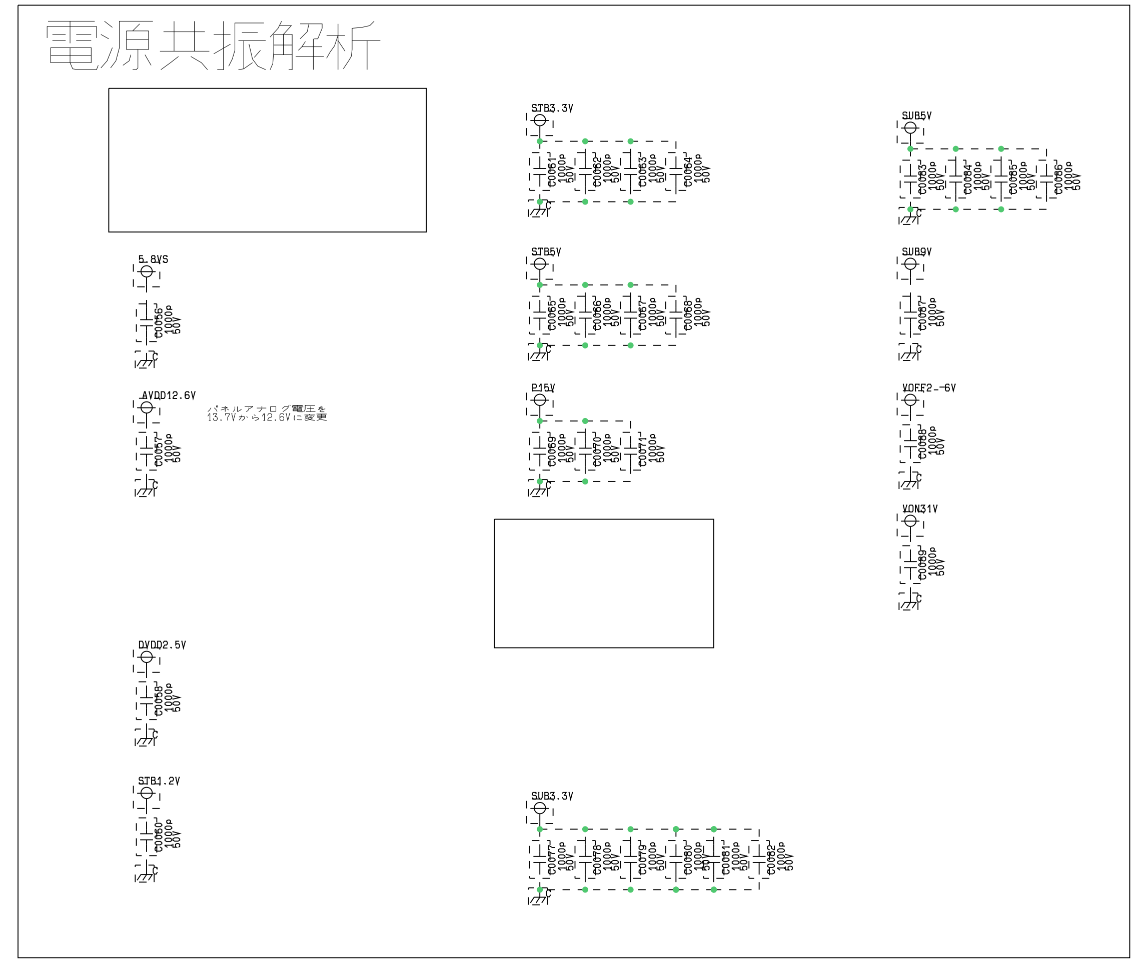
Power line bypass C

REF No. 0050 - 0099

[Net Variation]

TNP4G519

電源共振解析



CONFIDENTIAL
Until:31/12/2018

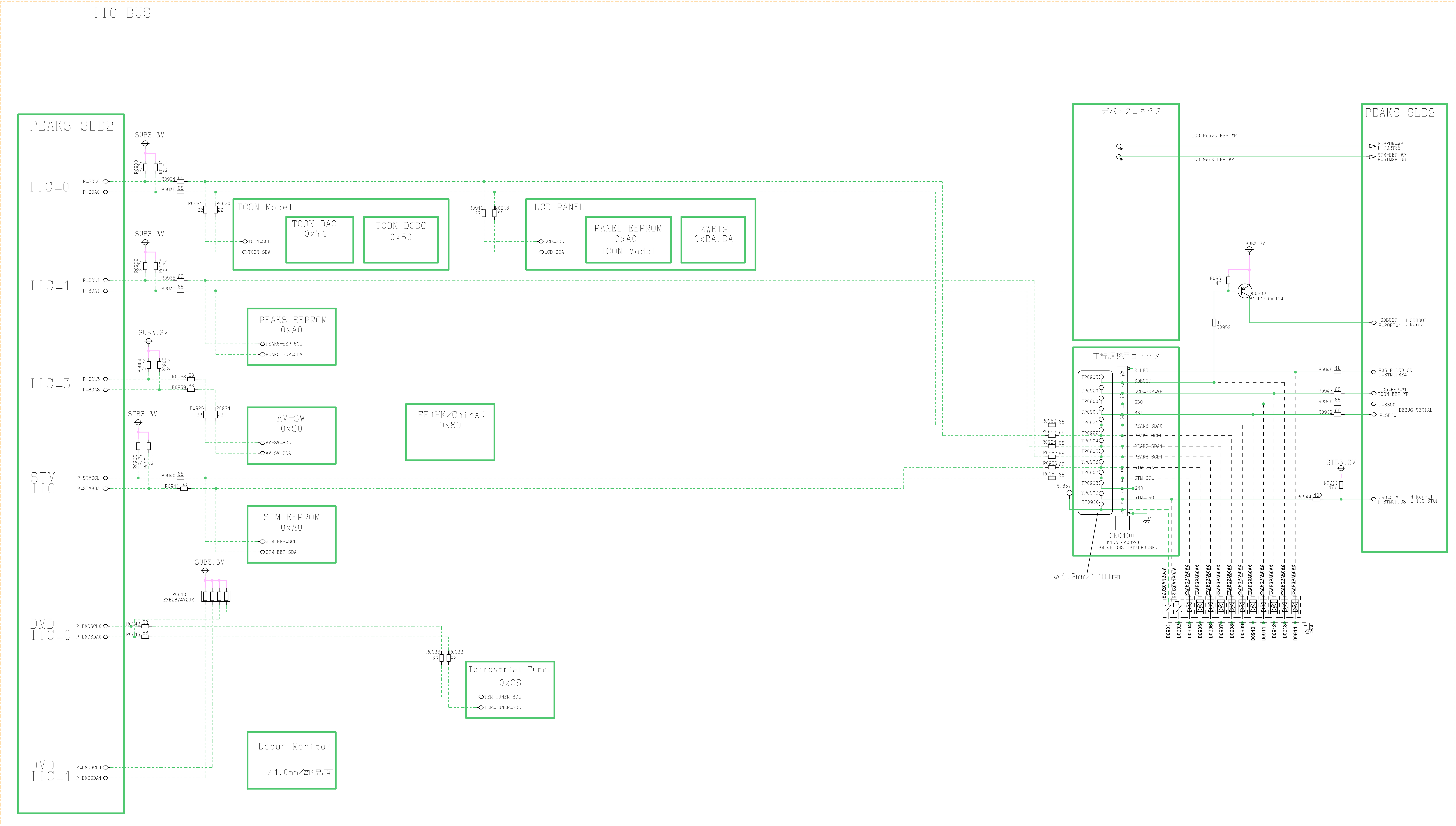
PLOT	11/06/01 /23:53:03	Kamariah
VARIATION	LB	
SHEET	TNP4G519.A.cir/002.sht	

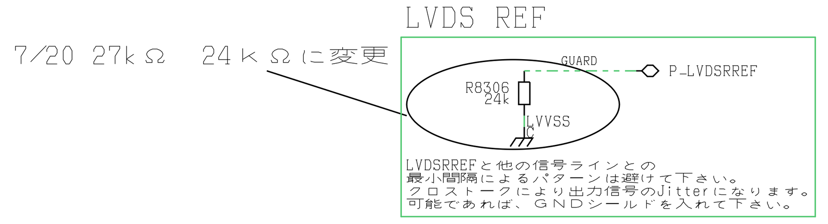
[Block Name]

IIC

REF No. 0900 - 0999

[Net Variation]





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CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	
Engineering Department MTV R&D	

-- APPROVE RANGE --
nil UB QB MB MA MAA DA PA CA
MBA MBB DB LB LC

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

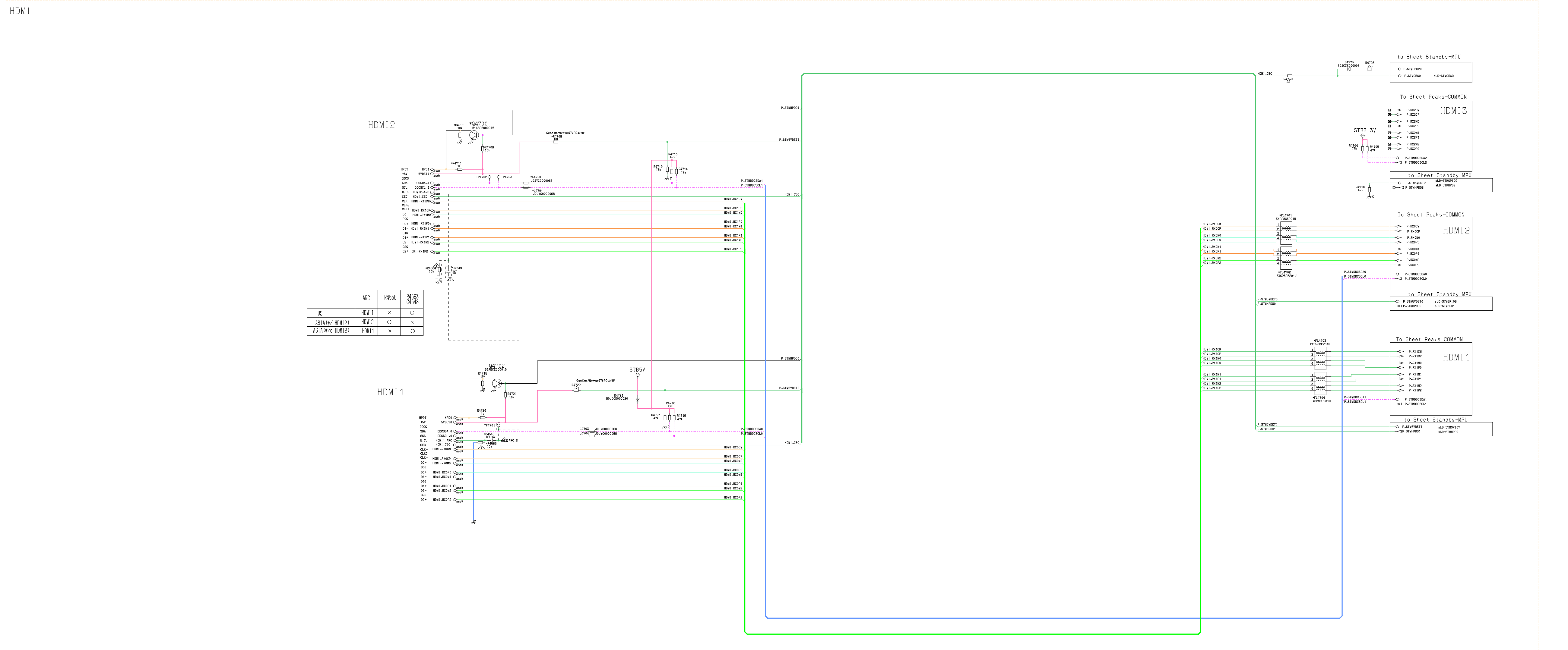
【 Block Name 】

HDMI Connector IF

REF No. 4500 - 4749

【 Net Variation 】

sLD2-4-LCD



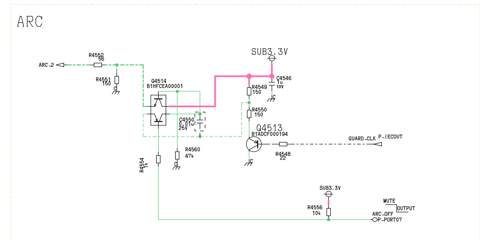
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ARC

REF No. 4750 - 4799

【 Net Variation 】

ARC1



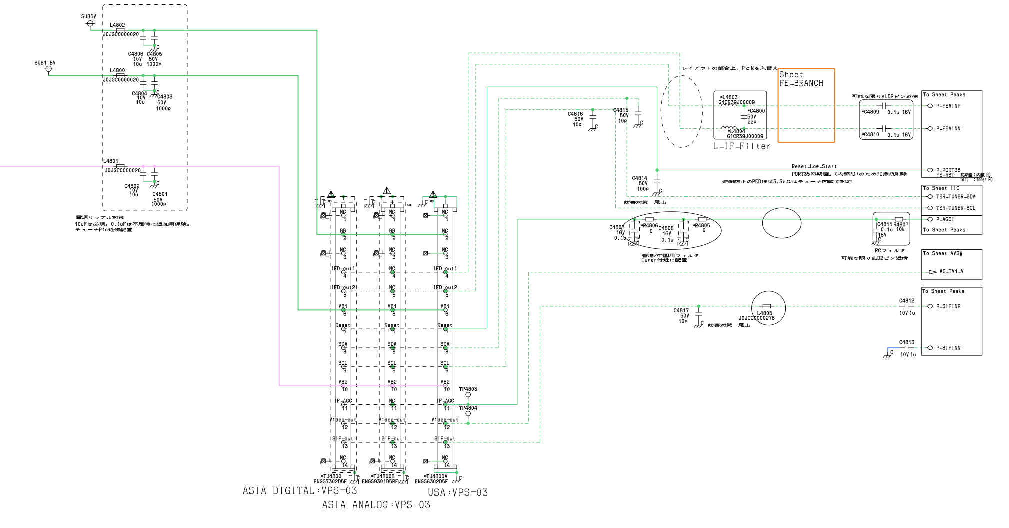
【 Block Name 】

Main Tuner

REF No. 4800 - 4899

【 Net Variation 】

GM/US



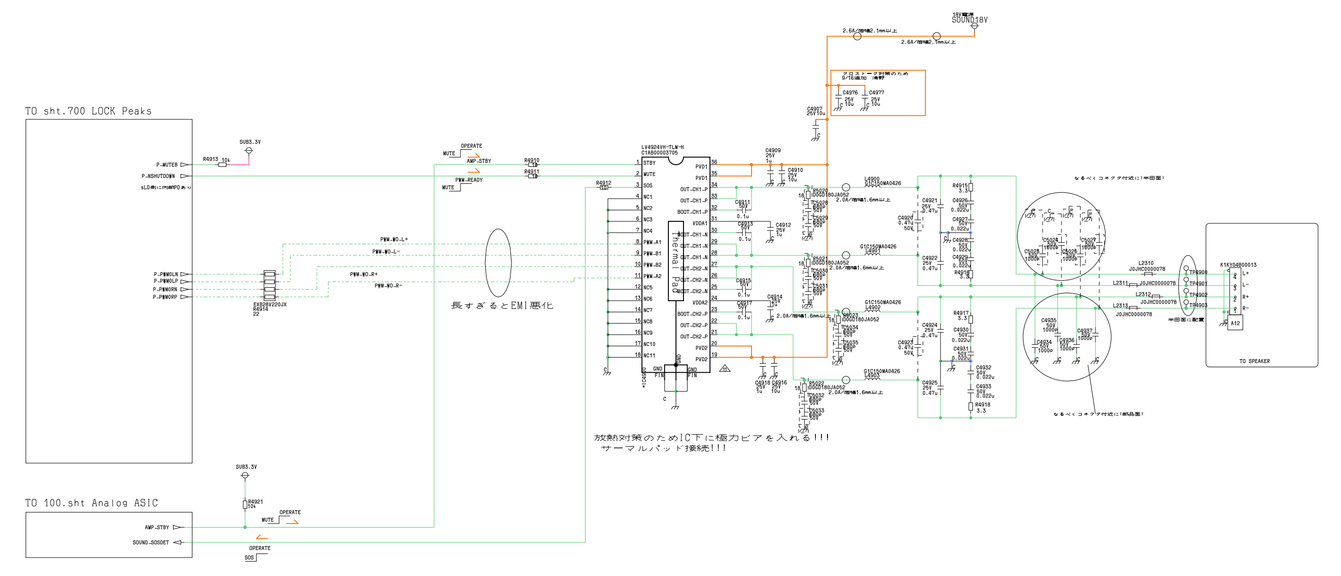
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Audio-AMP

REF No. 4900 - 4969

【 Net Variation 】

Common



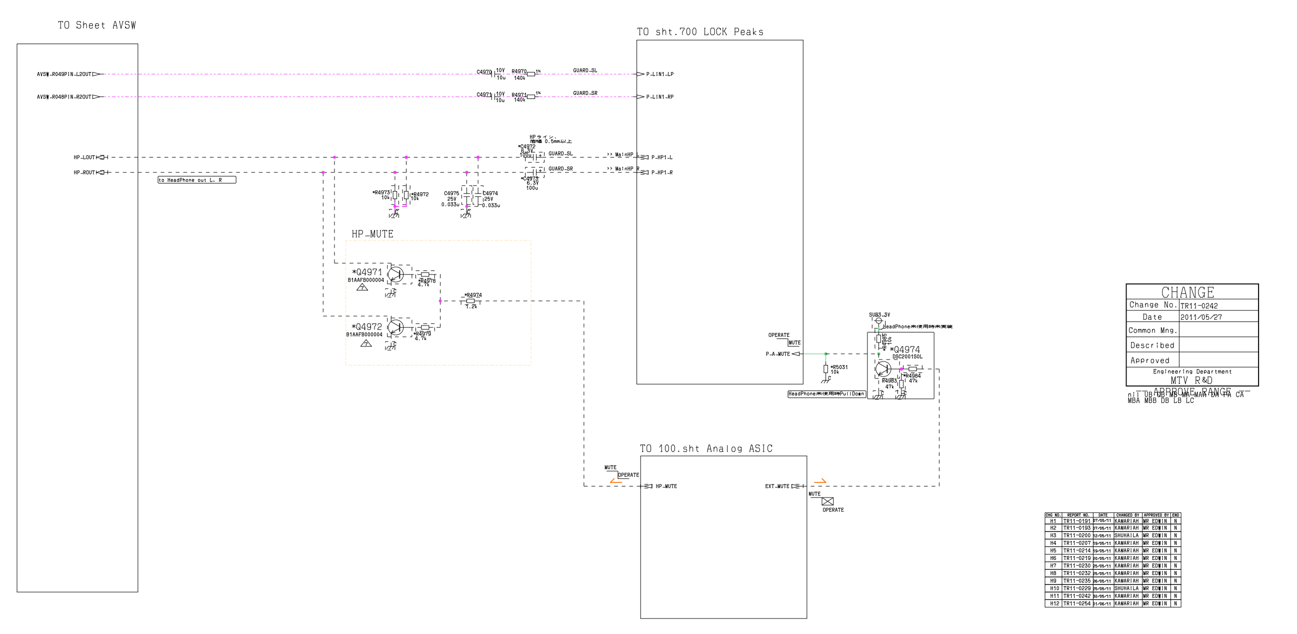
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Mute

REF No. 4970 - 4999

【 Net Variation 】

Common



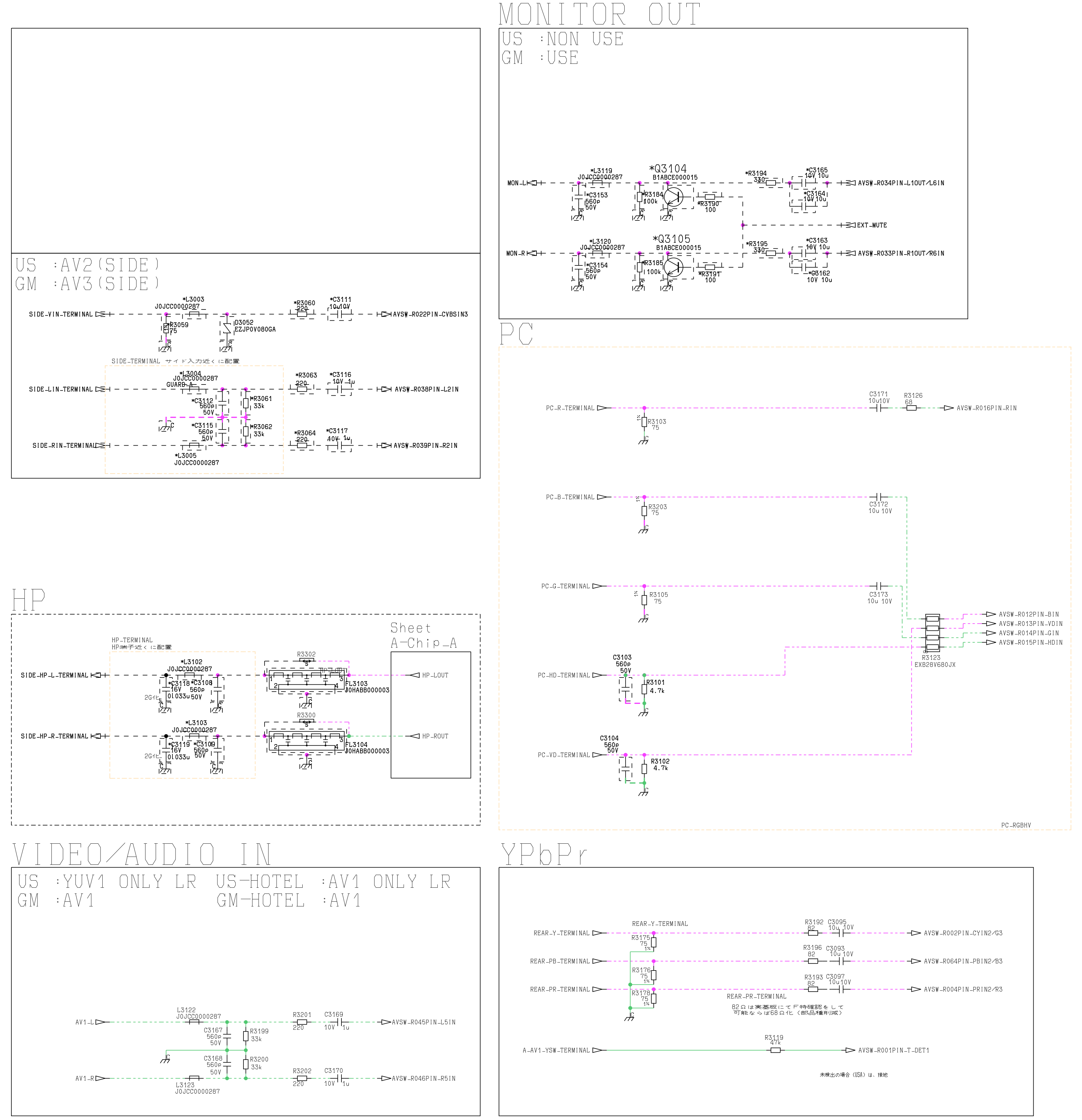
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AVSW-Connection

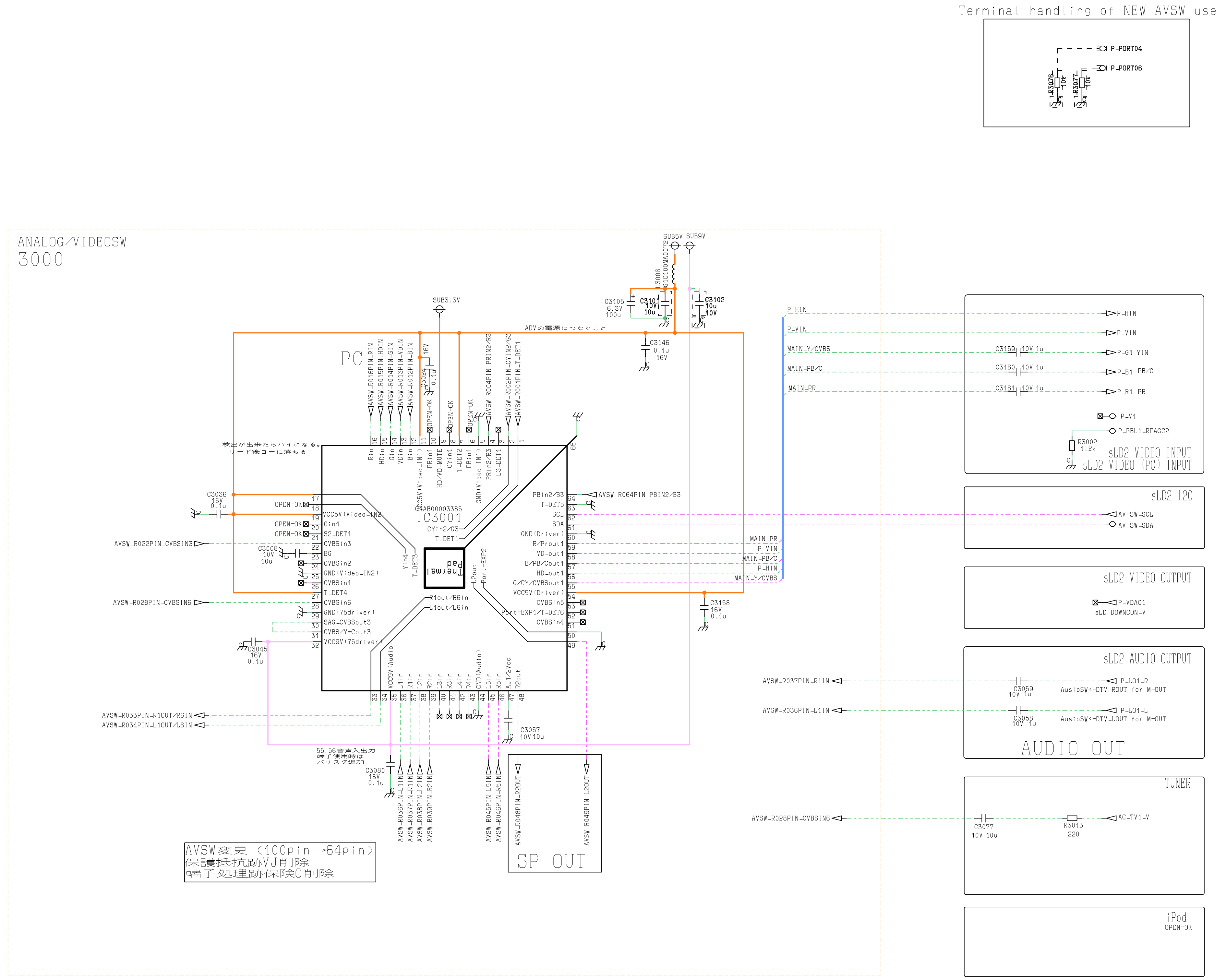
REF No. 3050 - 3249

[Net Variation]

GM/US 64pin-LCD



TANSHI/AVSW



Sheet No.004

[Block Name]

AVSW

CHANGE	
Change No.	
Date	
Common Bns.	
Described	
Approved	

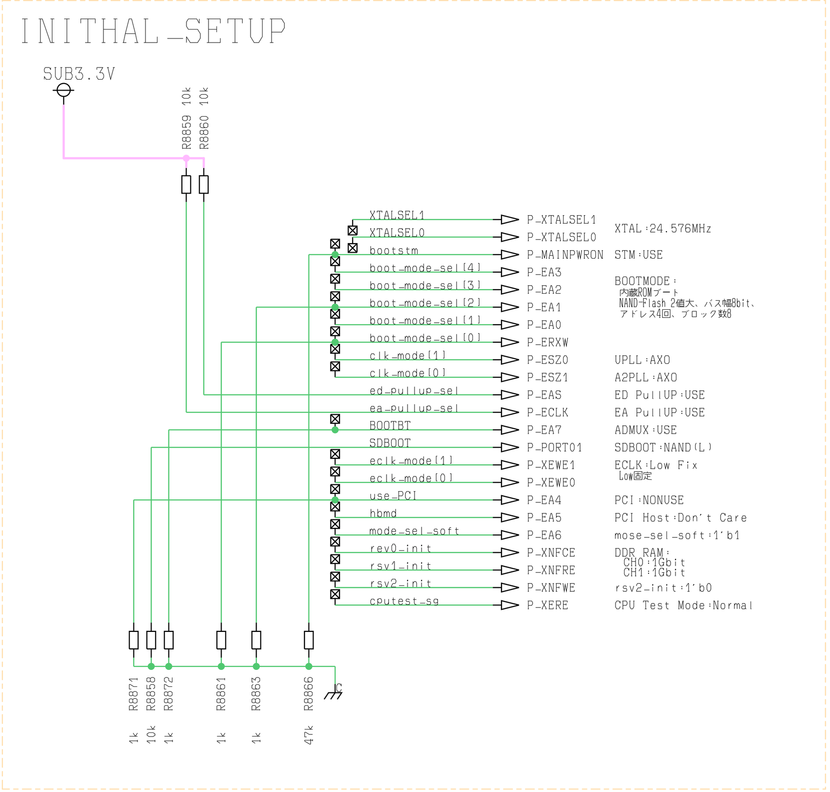
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Initial SETUP

REF No. 8000 - 8999

[Net Variation]

sLD2



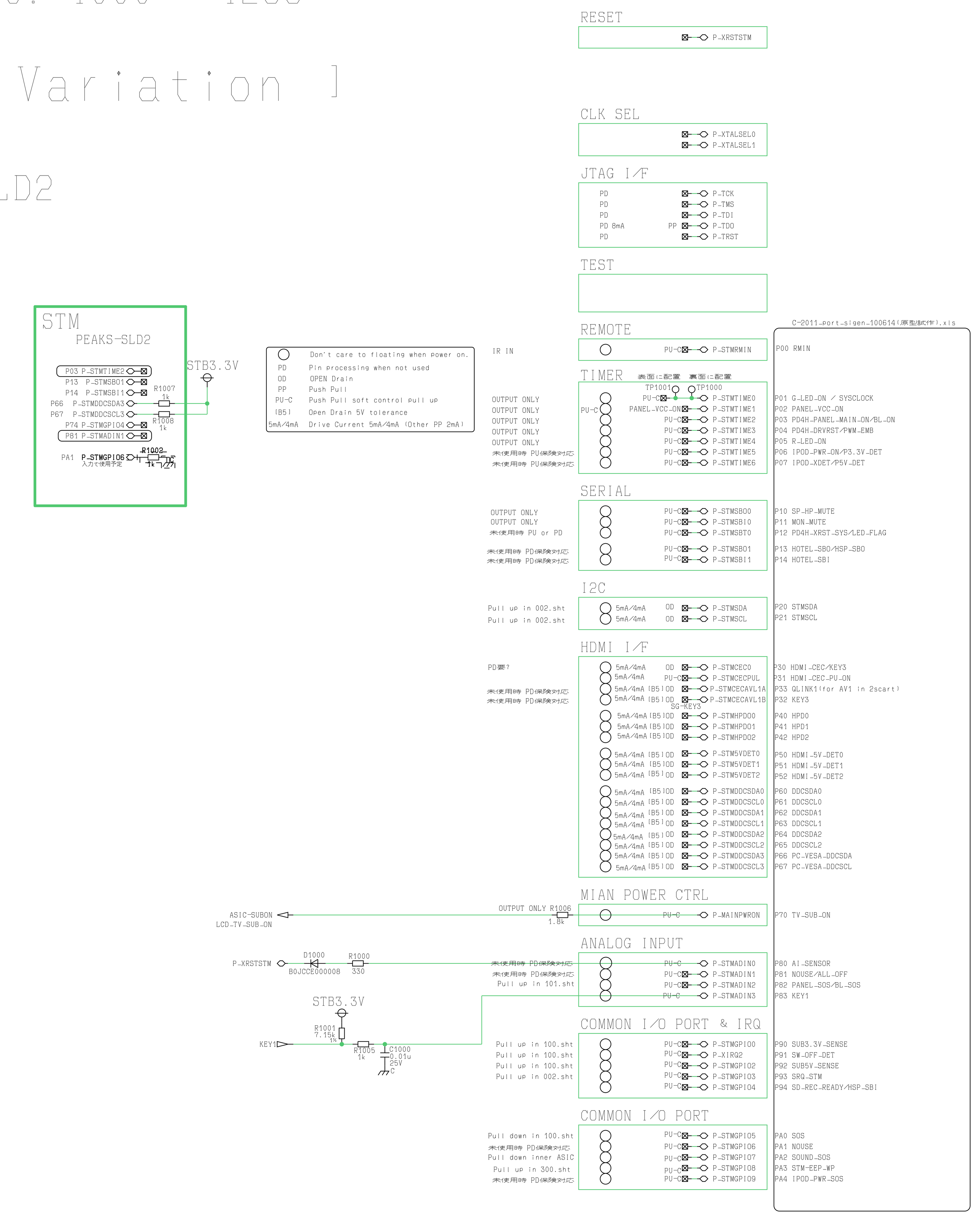
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STM Port

REF No. 1000 - 1299

[Net Variation]

LCD sLD2



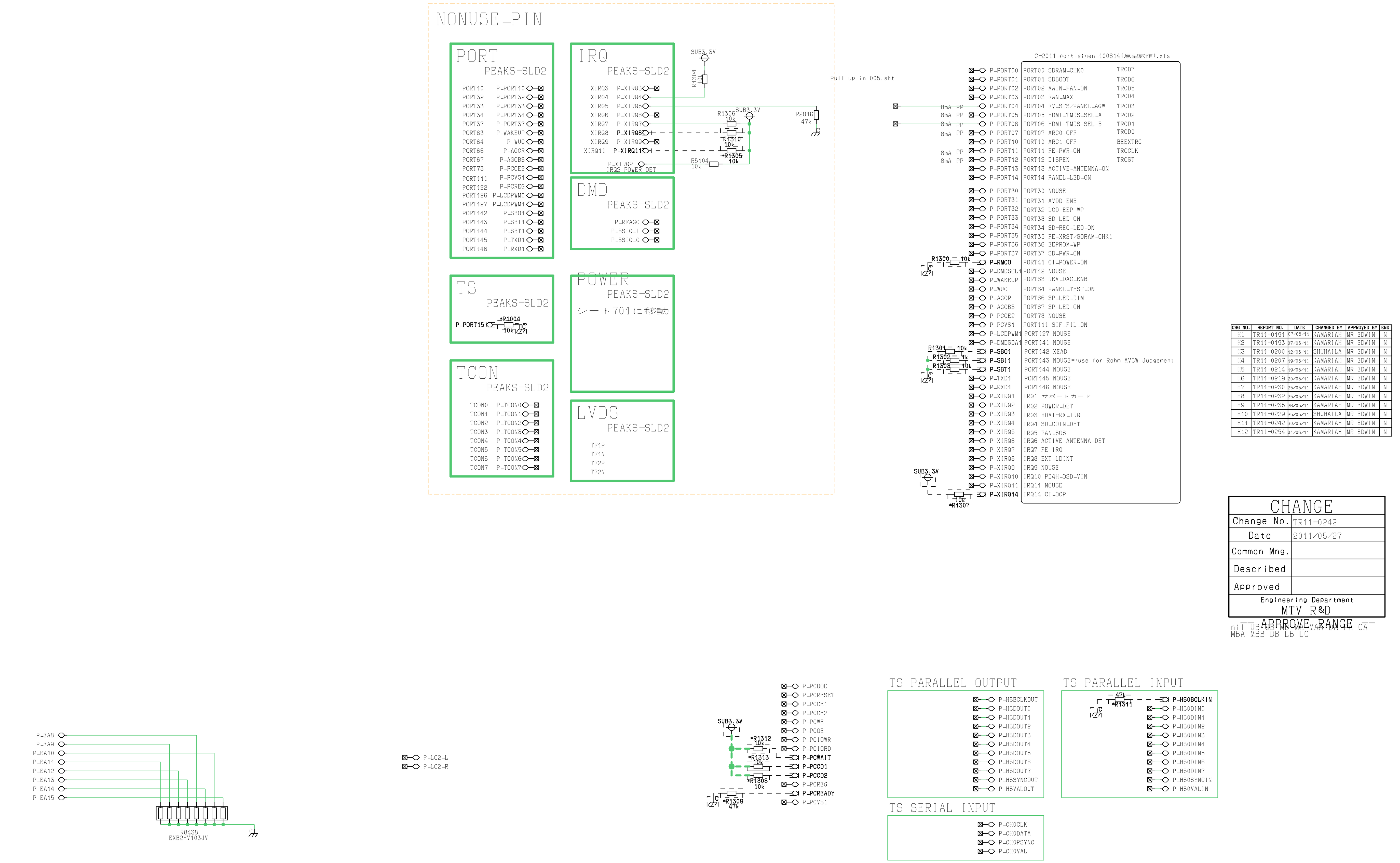
[Block Name]

Peaks Port

REF No. 1300 - 1499

[Net Variation]

LCD sLD2



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PLOT	11/06/01 /23:54:58	Kamariah
VARIATION	LB	
SHEET	TNP4G519.A.cir/008.sht	

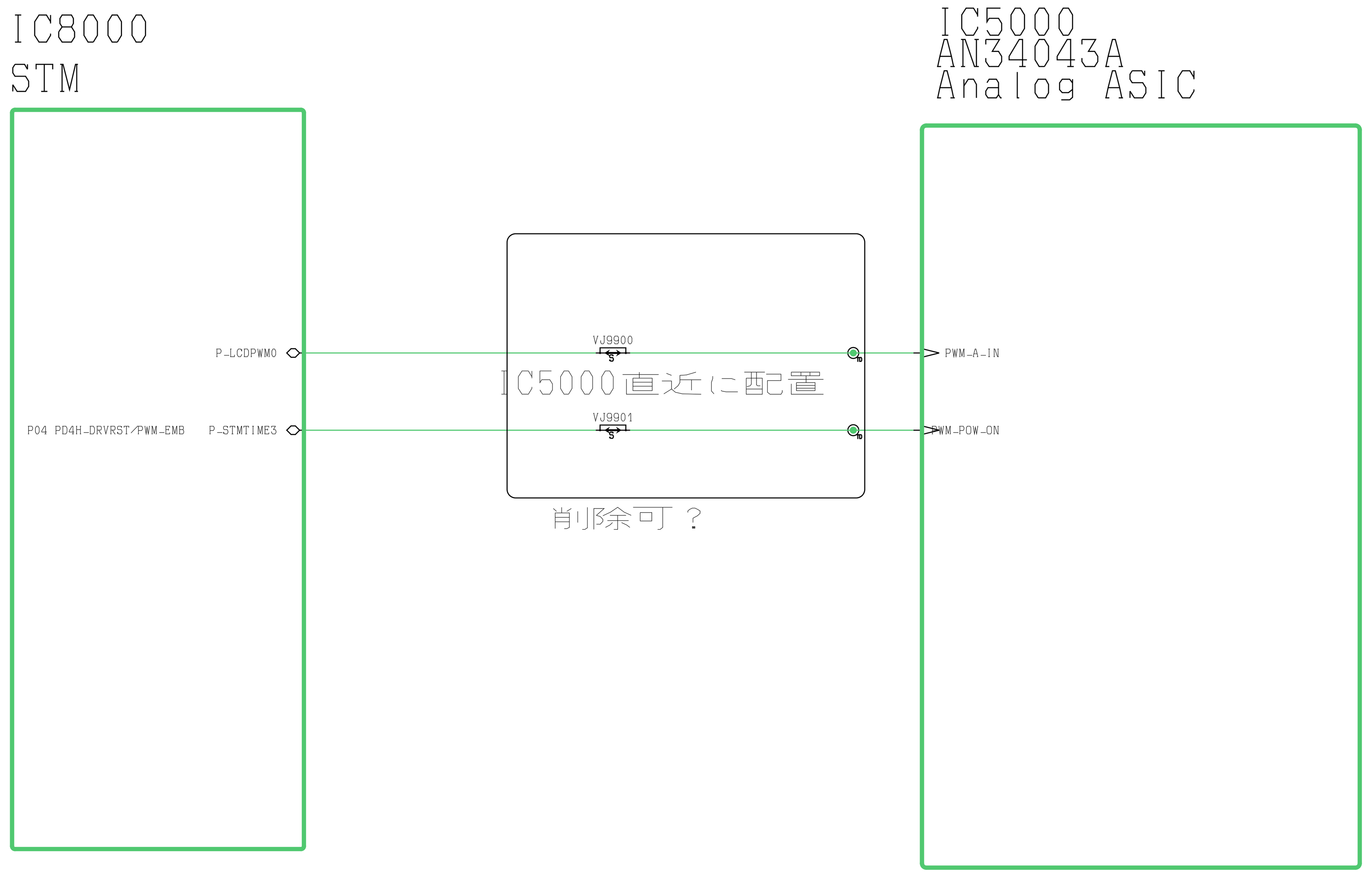
[Block Name]

PWM Control

REF No. 9900 - 9969

[Net Variation]

sLD2



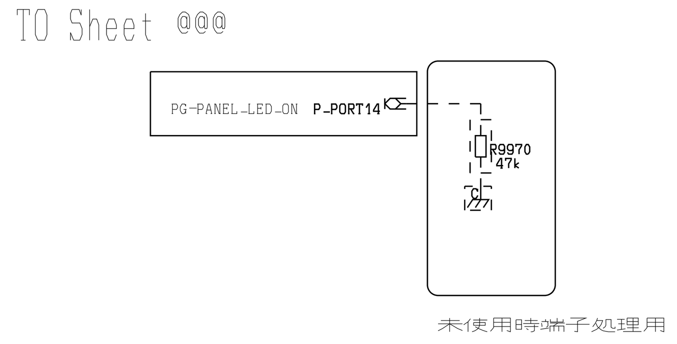
[Block Name]

INV-LED

REF No. 9970 - 9979

[Net Variation]

sLD2



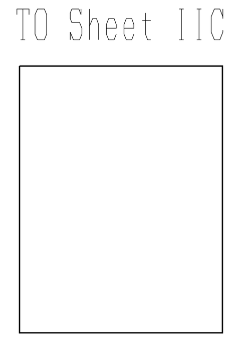
[Block Name]

Temp Sensor

REF No. 9980 - 9999

[Net Variation]

LCD sLD2



SLV:92
温度センサー
(temperature sensor)

CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	
Engineering Department MTV R&D	

-- APPROVE RANGE --
nil UB QB MB MA MAA DA PA CA
MBA MBB DB LB LC

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

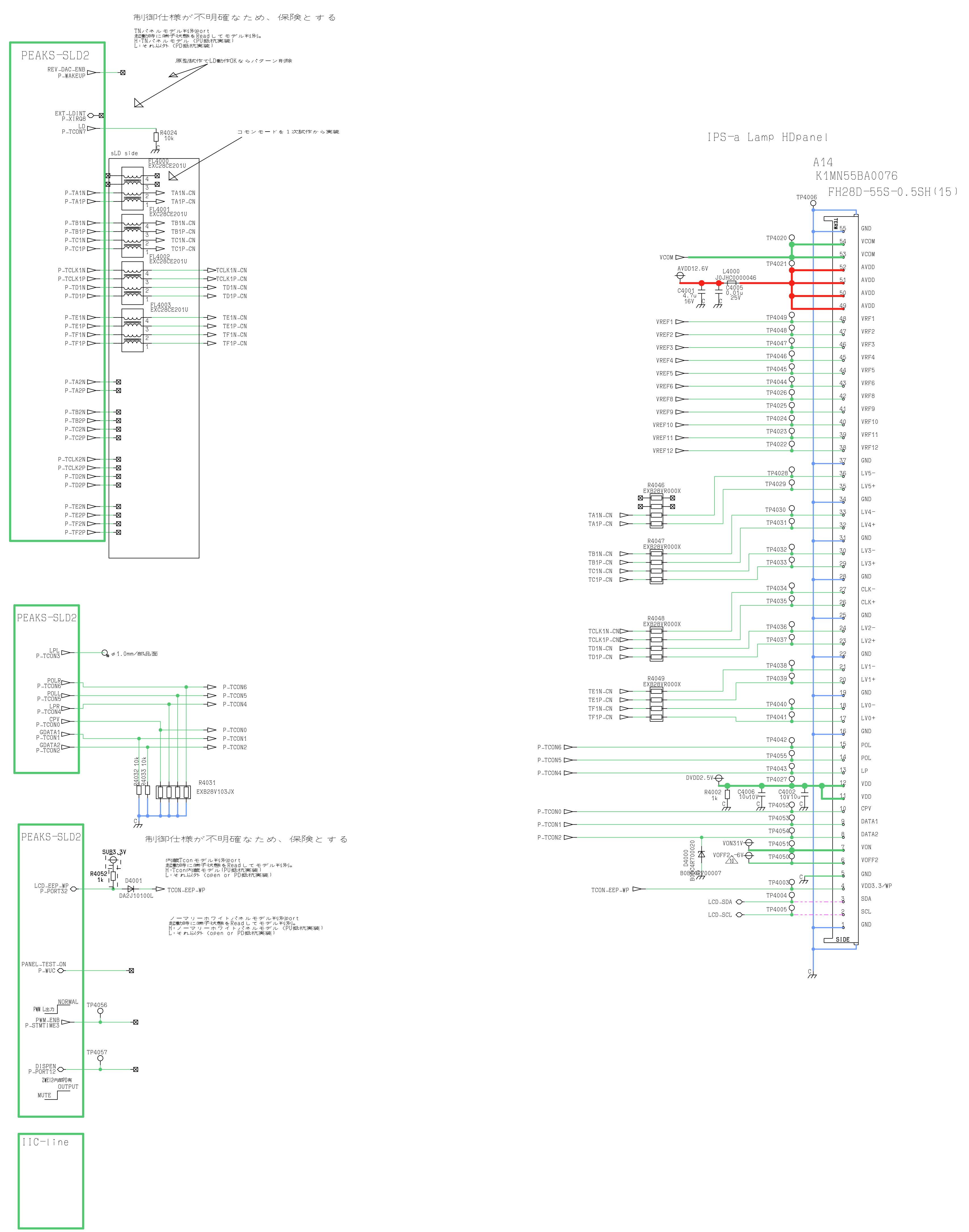
[Block Name]

LVDS-IF

REF No. 4000 - 4119

[Net Variation]

AB: HD miniLVDS(Lamp)
AK: HD miniLVDS(LED)



SHEET009:TCON
CRNo:4000-4999

CONFIDENTIAL

[Block Name]

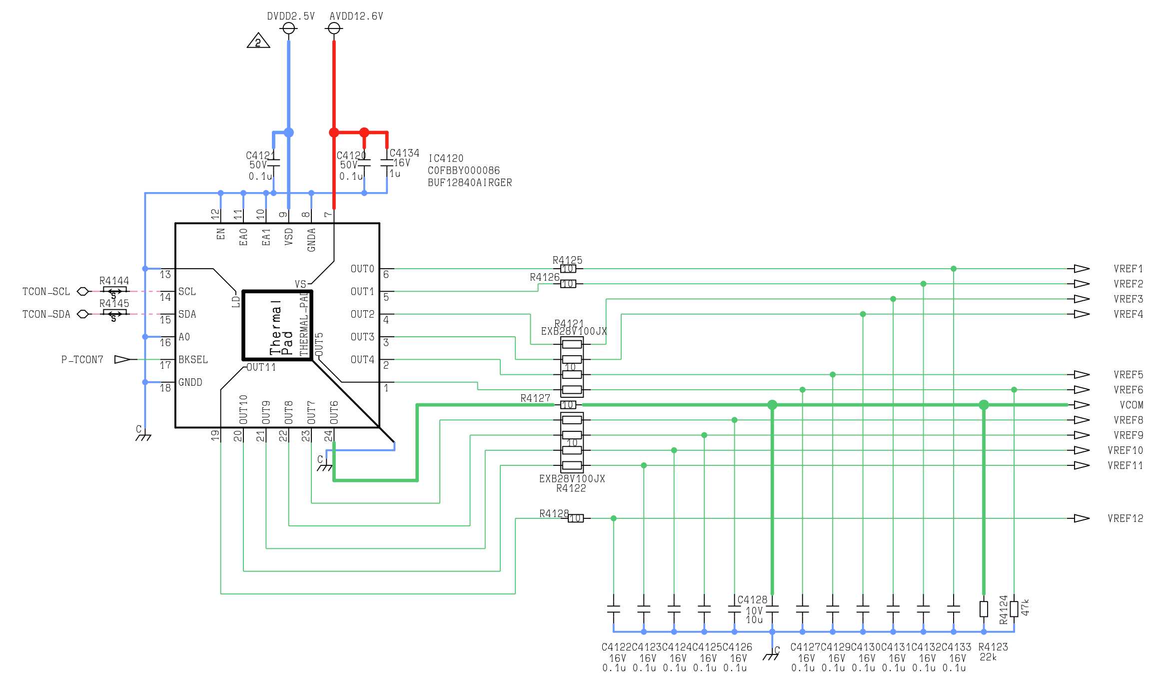
T-CON DAC

REF No. 4120 - 4149

[Net Variation]

Common

For α-HD panel
DAC(TI)



[Block Name]

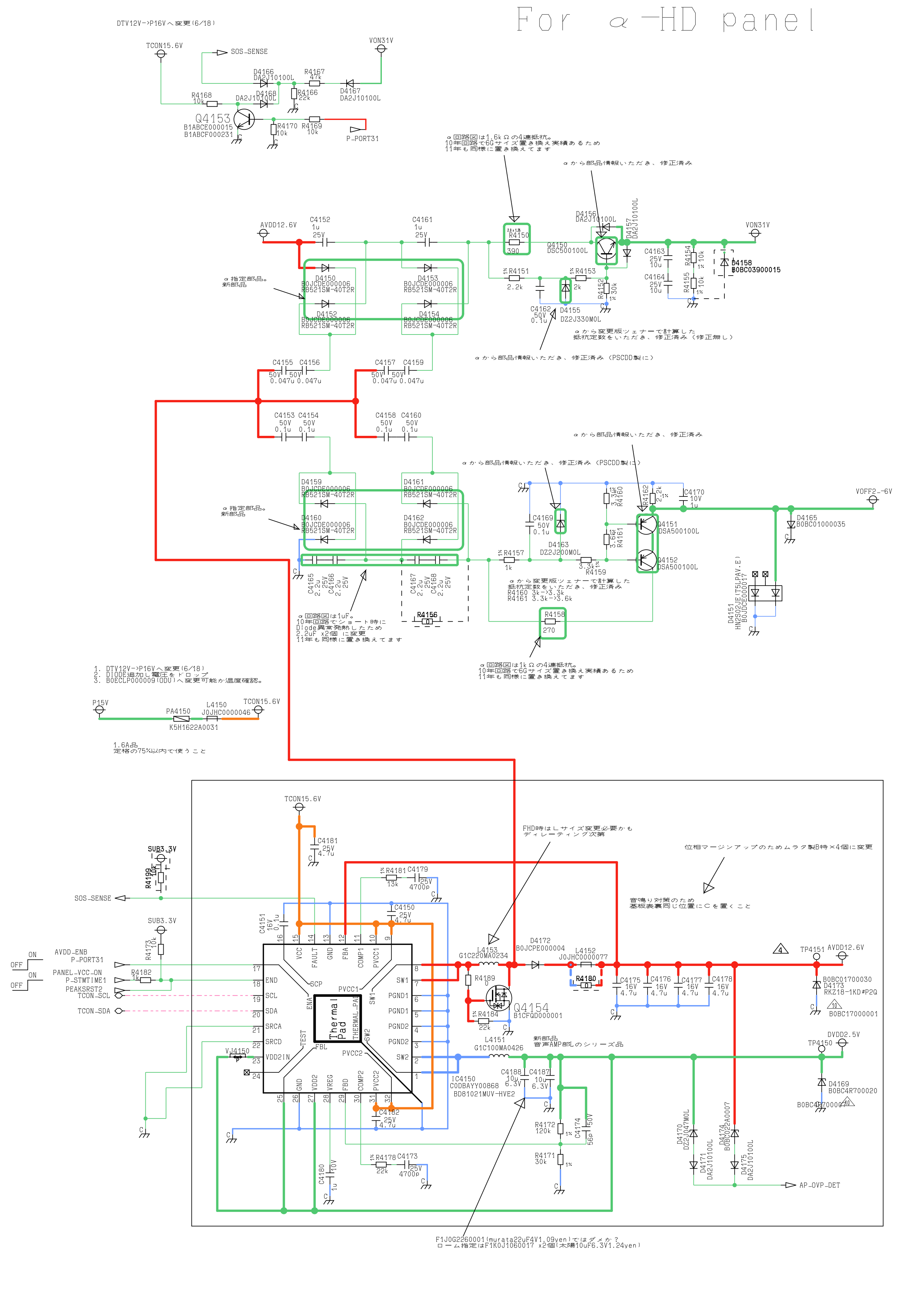
T-CON DCDC

REF No. 4150 - 4199

[Net Variation]

Common

For α-HD panel



[Block Name]

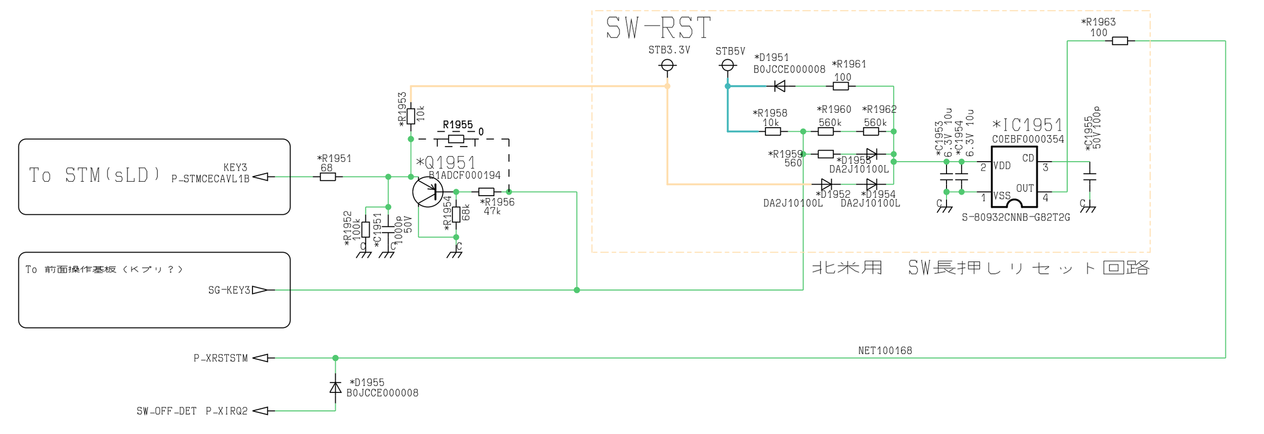
POWER-KEY-RESET

REF No. 1951 - 1999

[Net Variation]

US

電源キー長押しによるリセット回路



[Block Name]

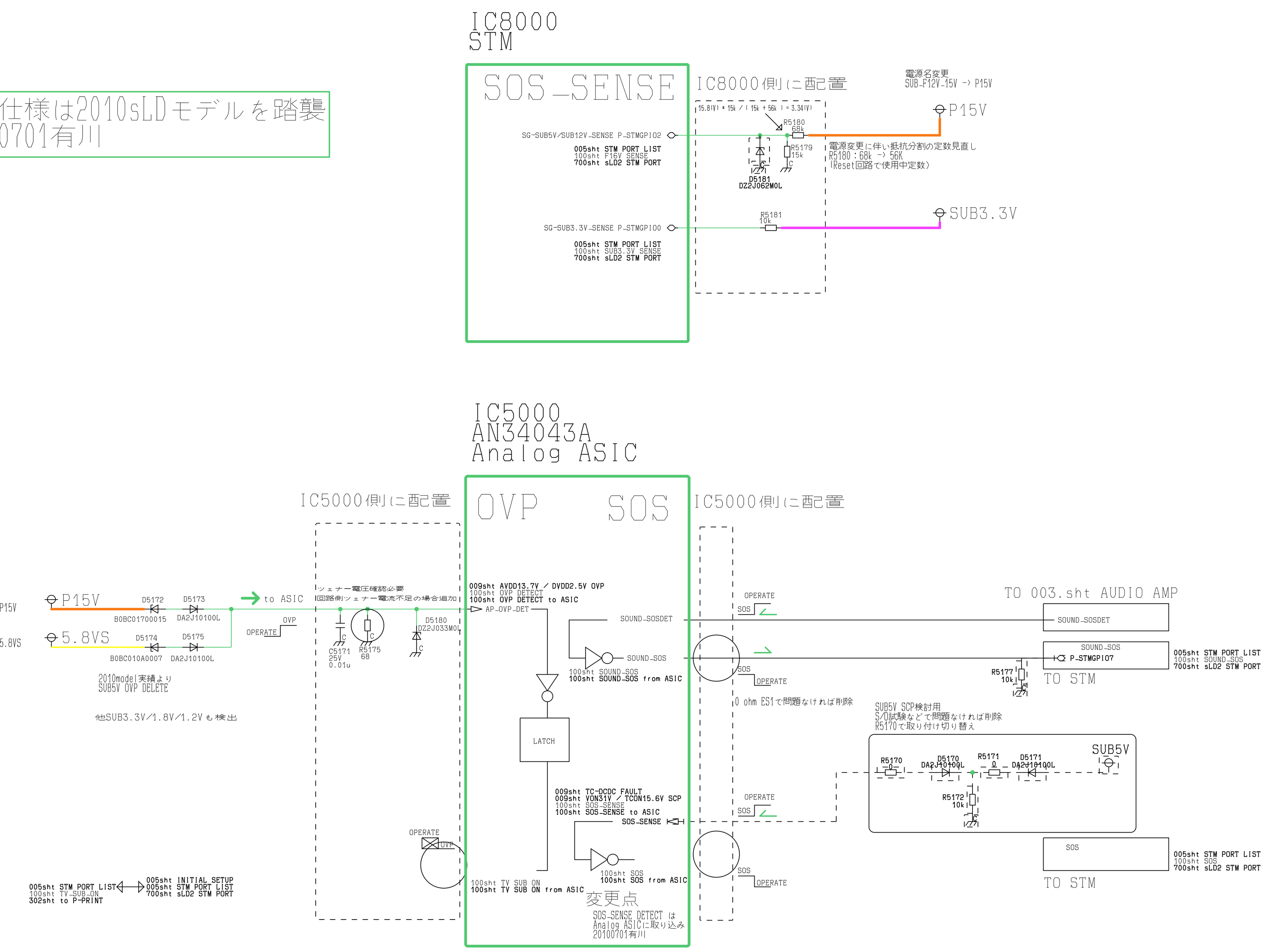
SOS

REF No. 5170 - 5199

[Net Variation]

LCD

基本仕様は2010sLDモデルを踏襲
20100701有川



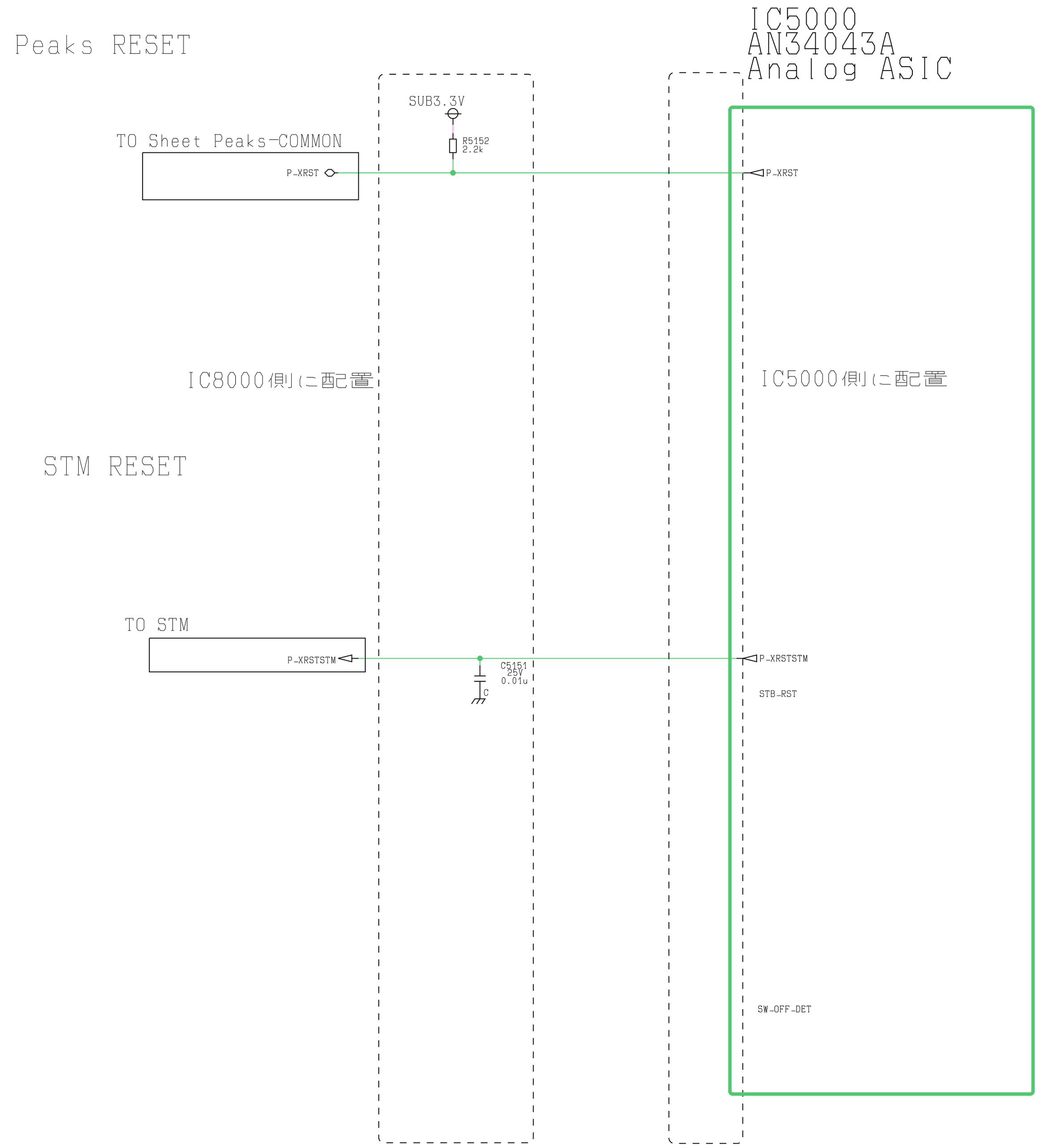
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POWER-DET

REF No. 5140 - 5169

[Net Variation]

LCD



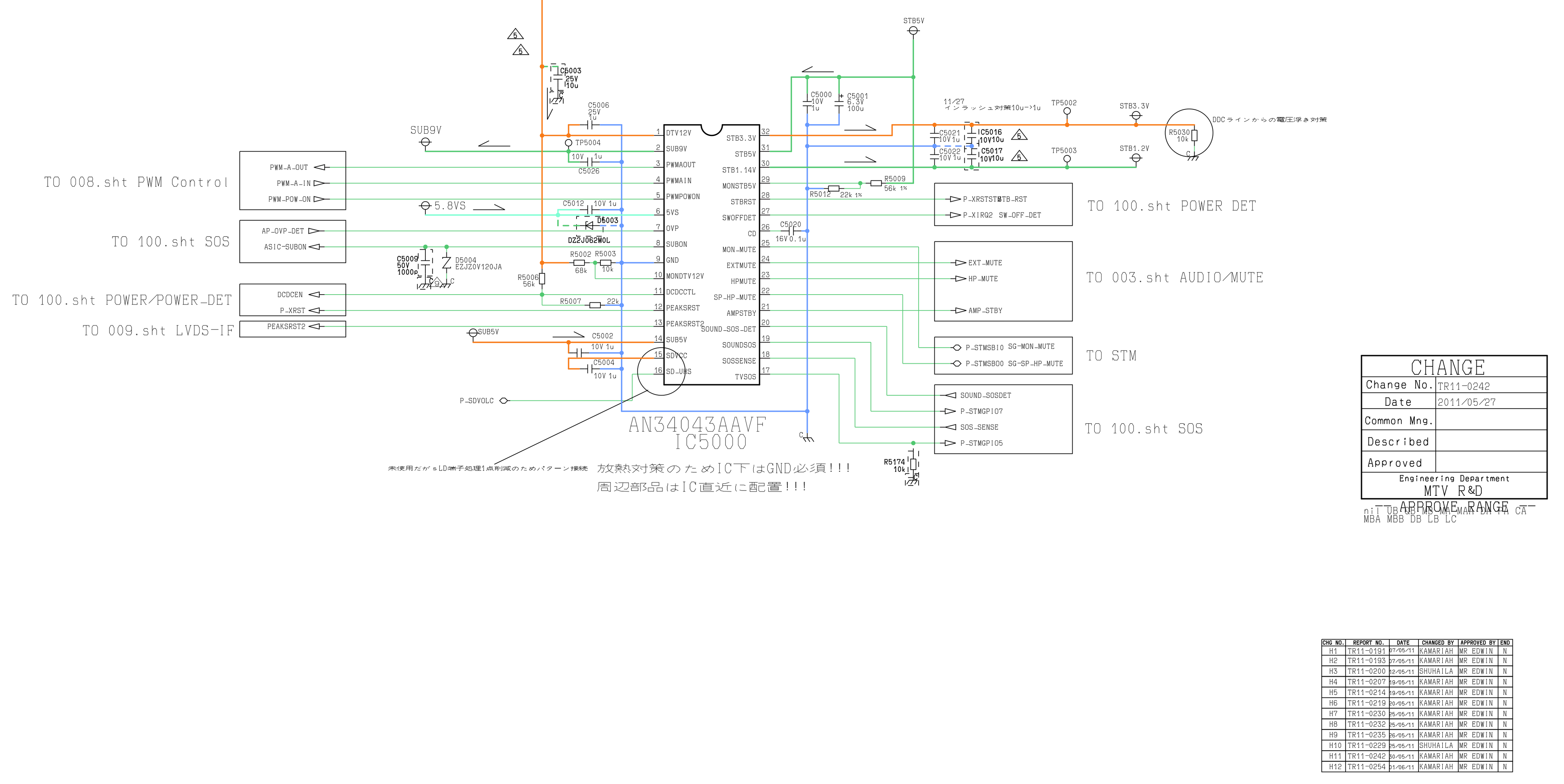
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Analog ASIC

REF No. 5000 - 5139

[Net Variation]

LCD



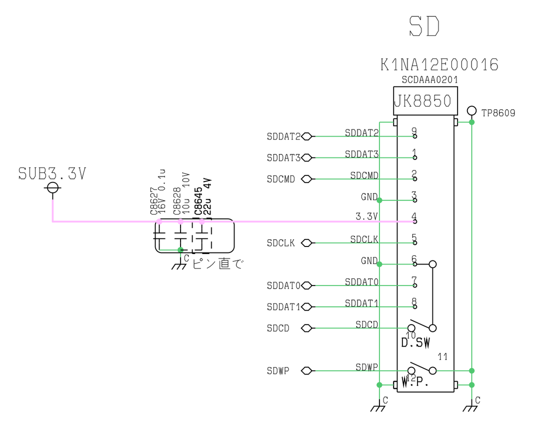
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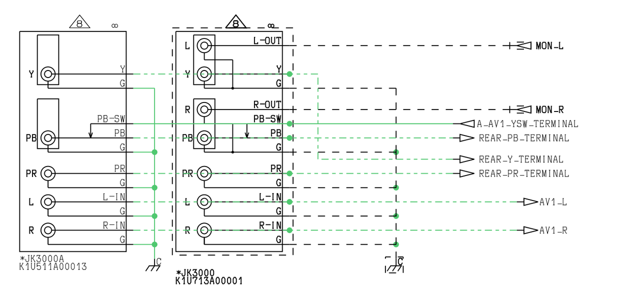
Terminal

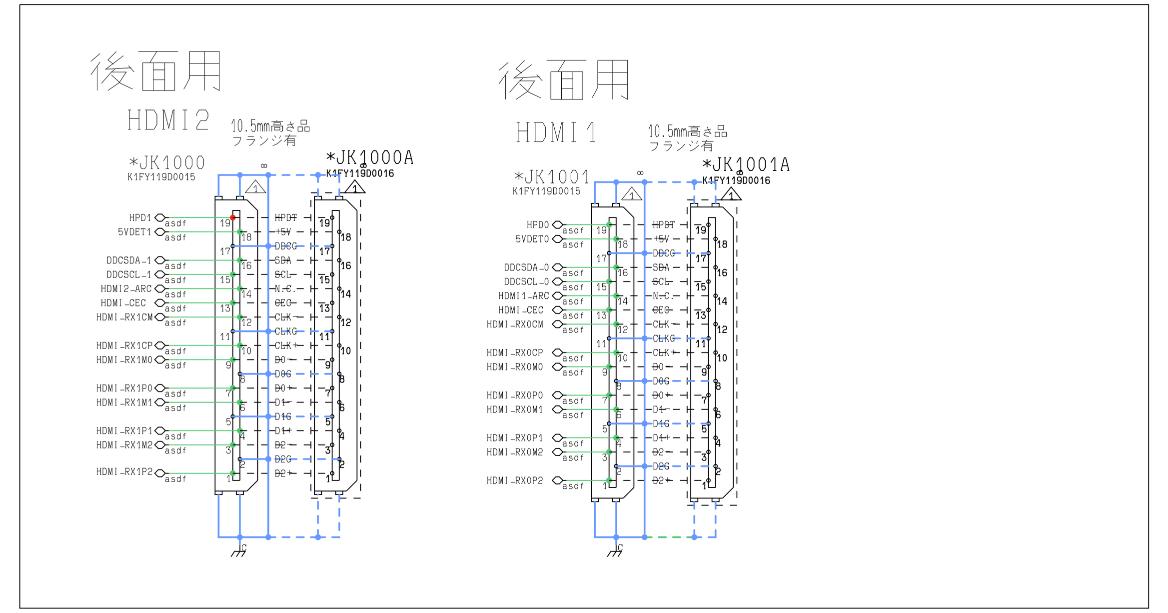
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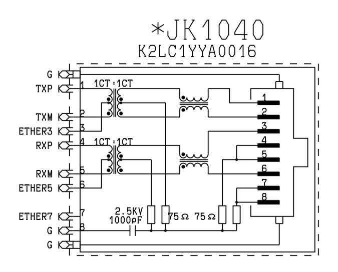
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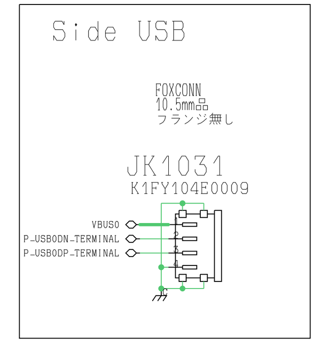
E3-US/GM-LCD

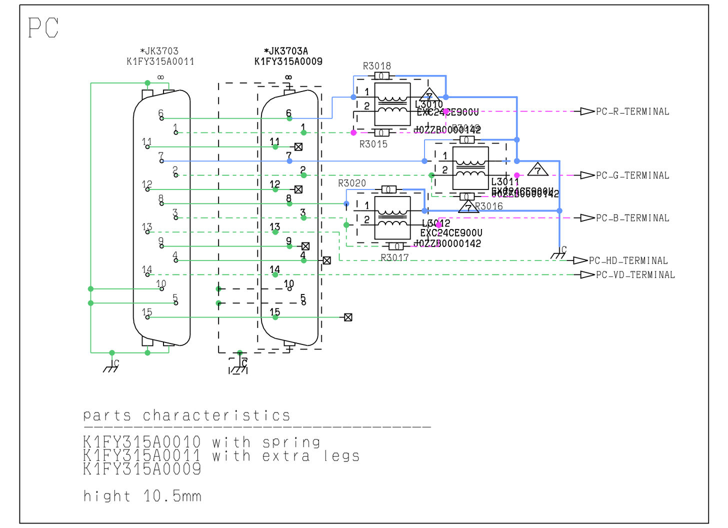


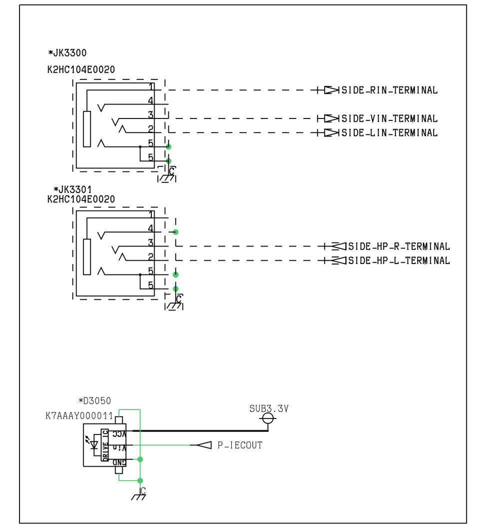












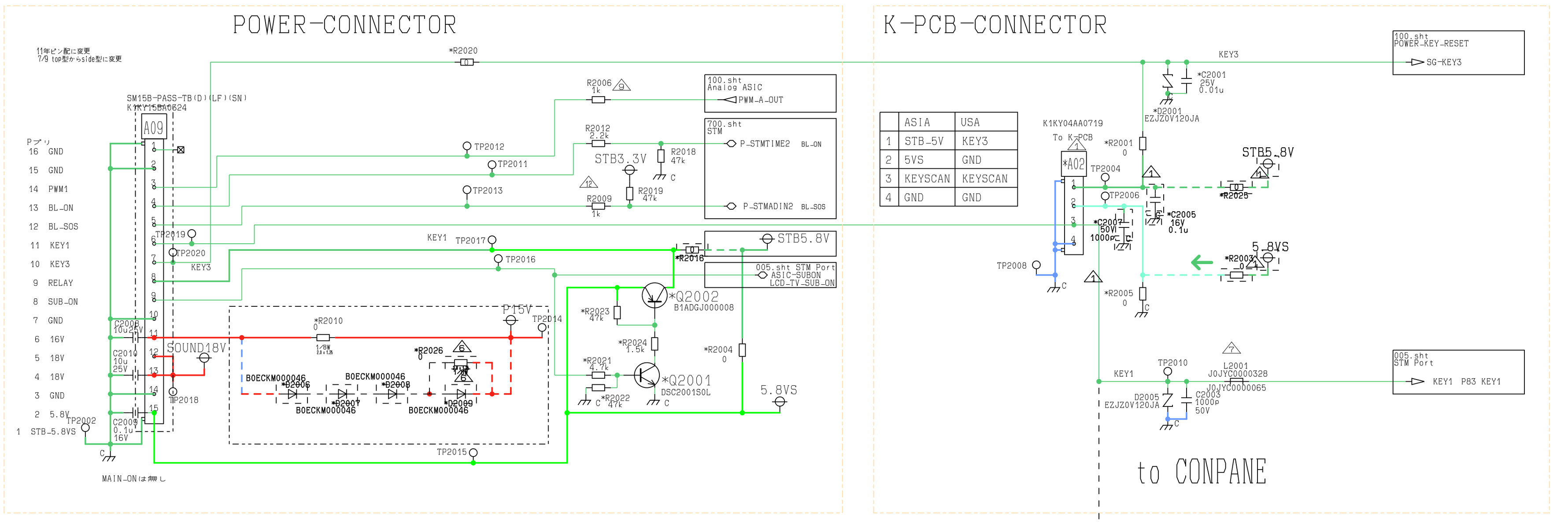
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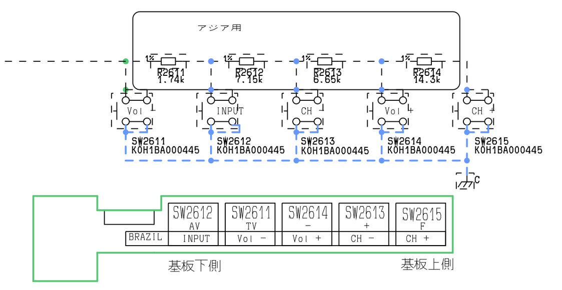
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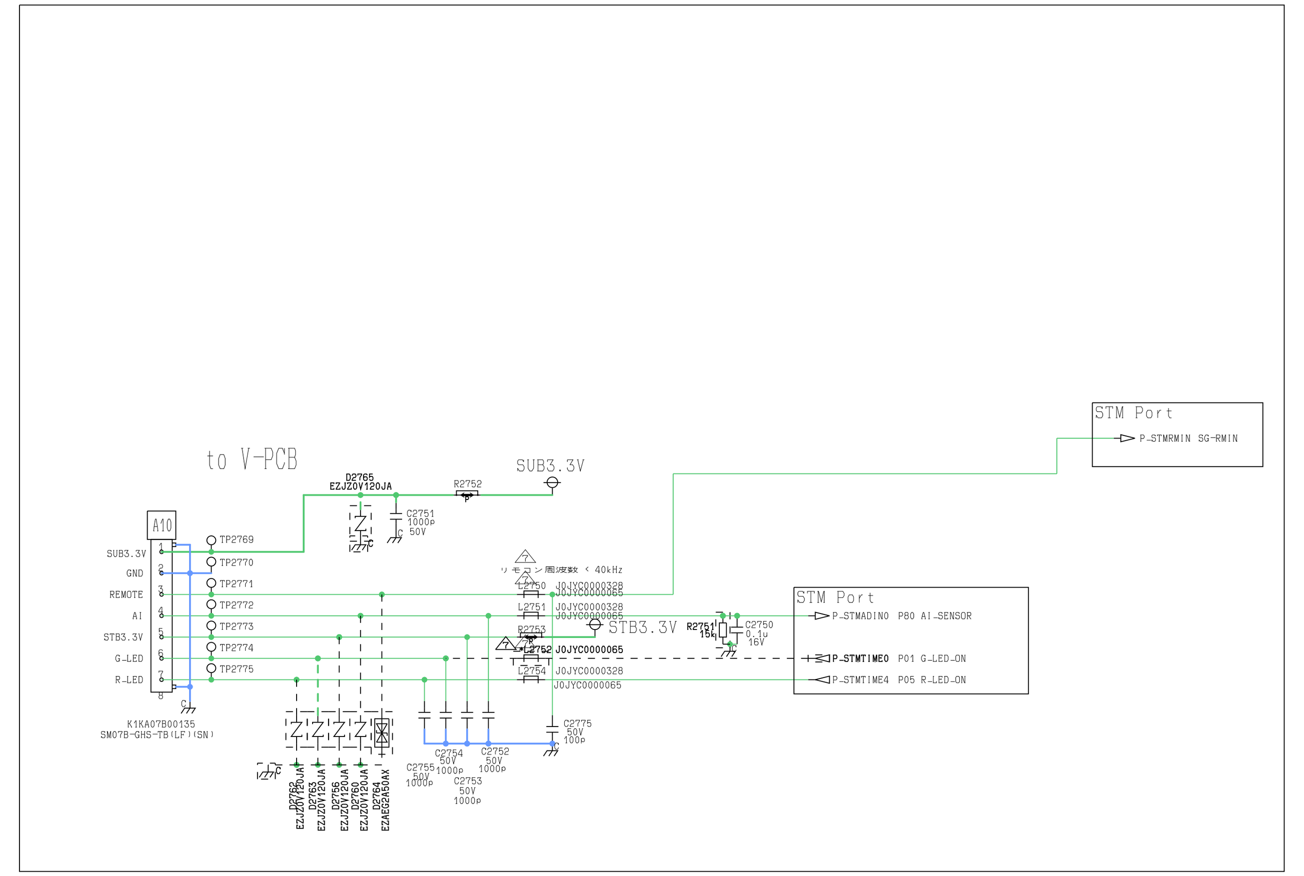
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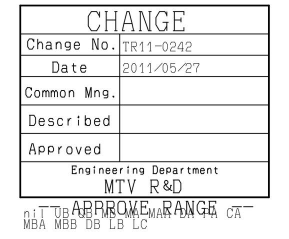
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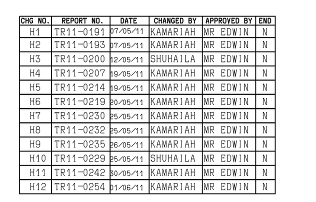
E3-US/GM-LCD

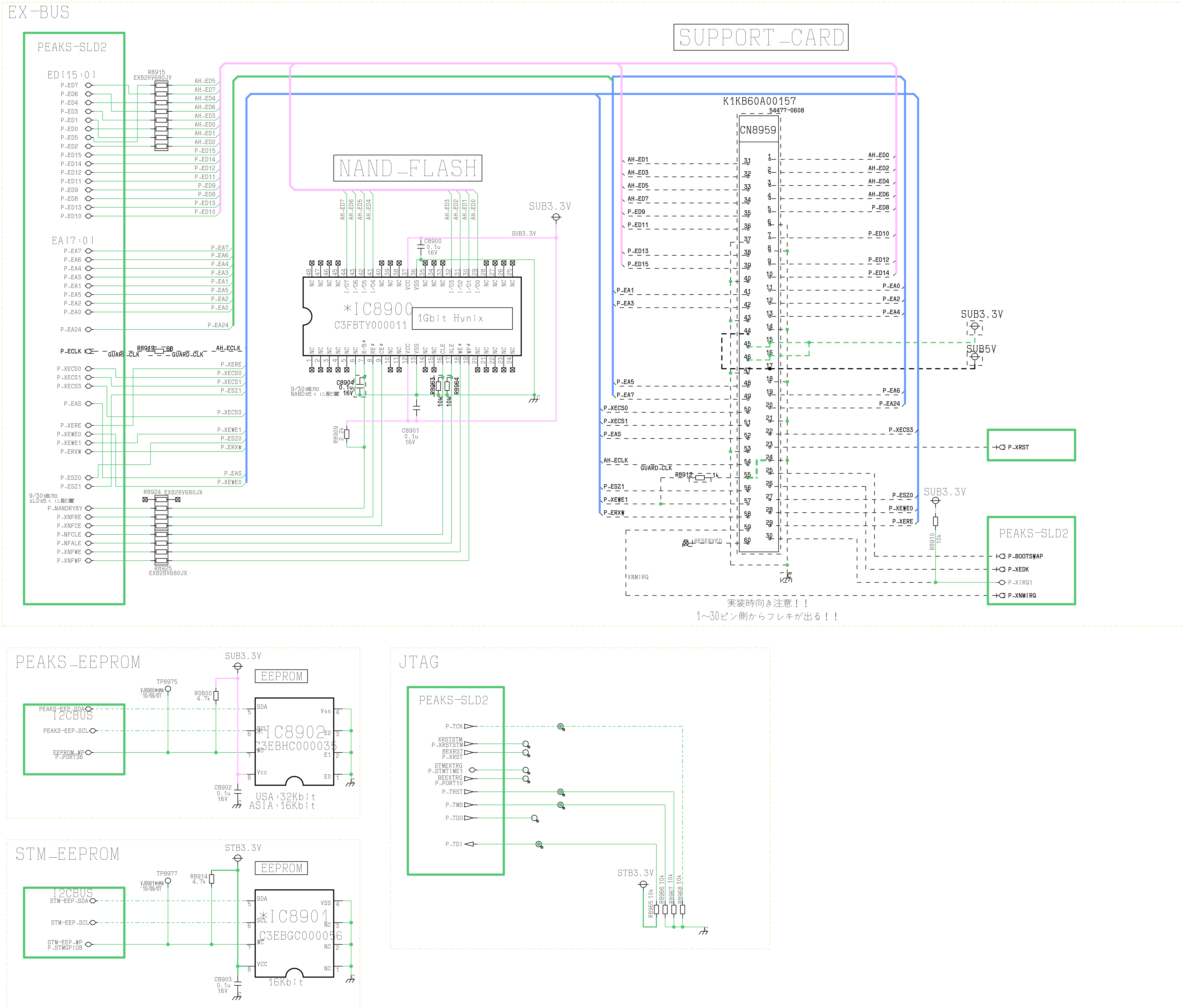












CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	
Engineering Department MTV R&D	

-- APPROVE RANGE --

nil UB QB MB MA MAA DA PA CA MBA MBB DB LB LC

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

SHEETXXX:COMMON_NAND.SPC.JTAG.EEPROM
CRNo:8240-8299

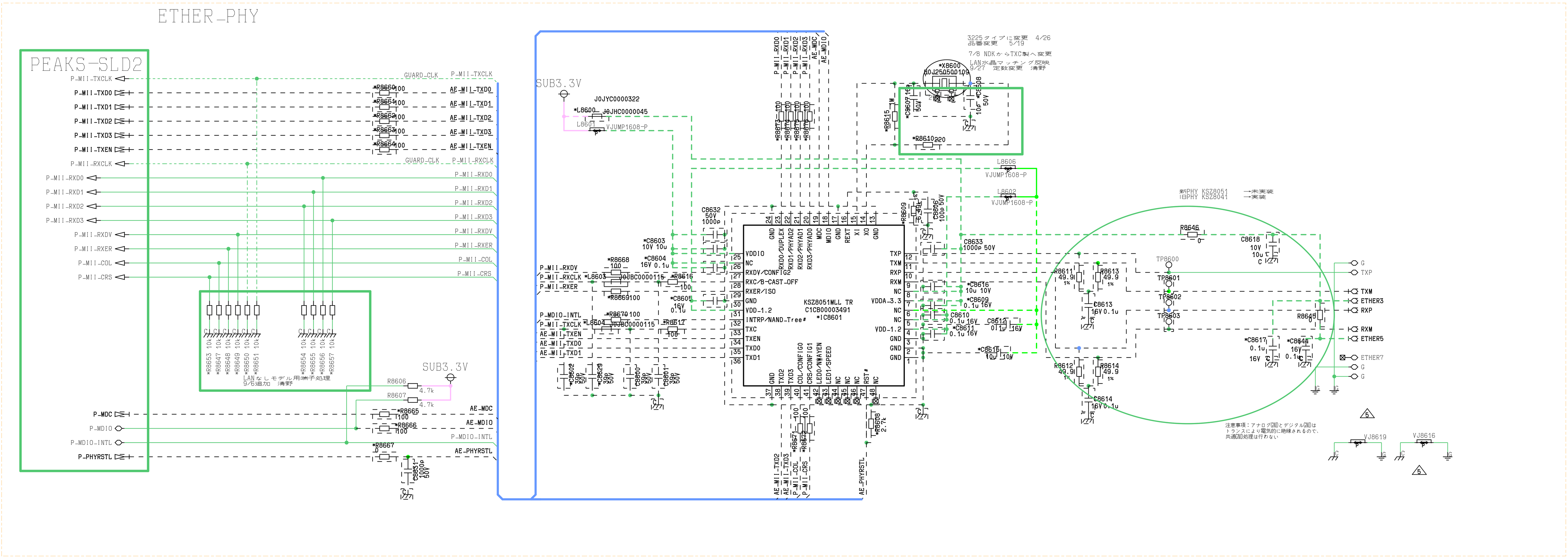
[Block Name]

LAN

REF No. 8000 - 8999

[Net Variation]

sLD2



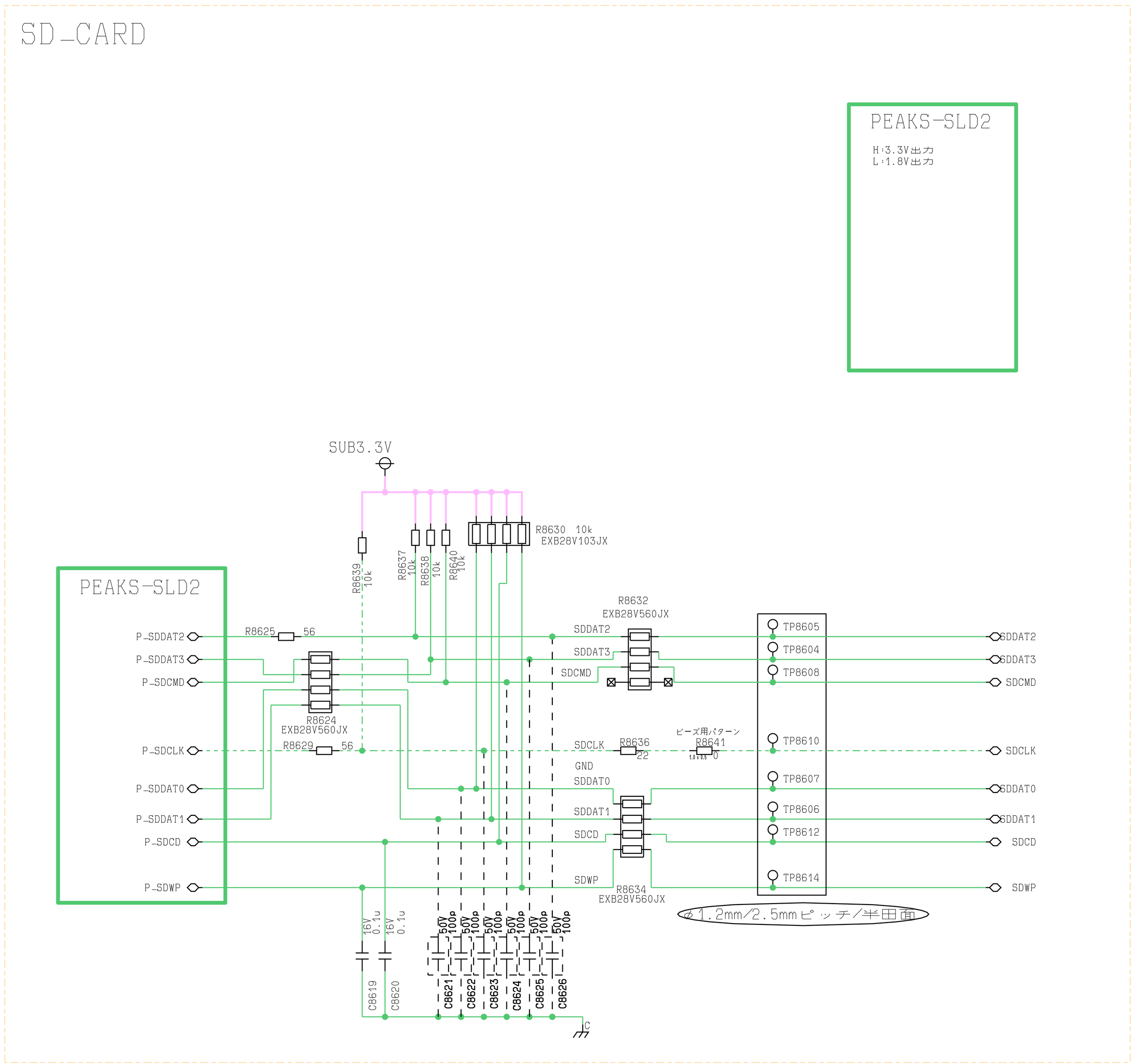
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SD

REF No. 8000 - 8999

[Net Variation]

sLD2



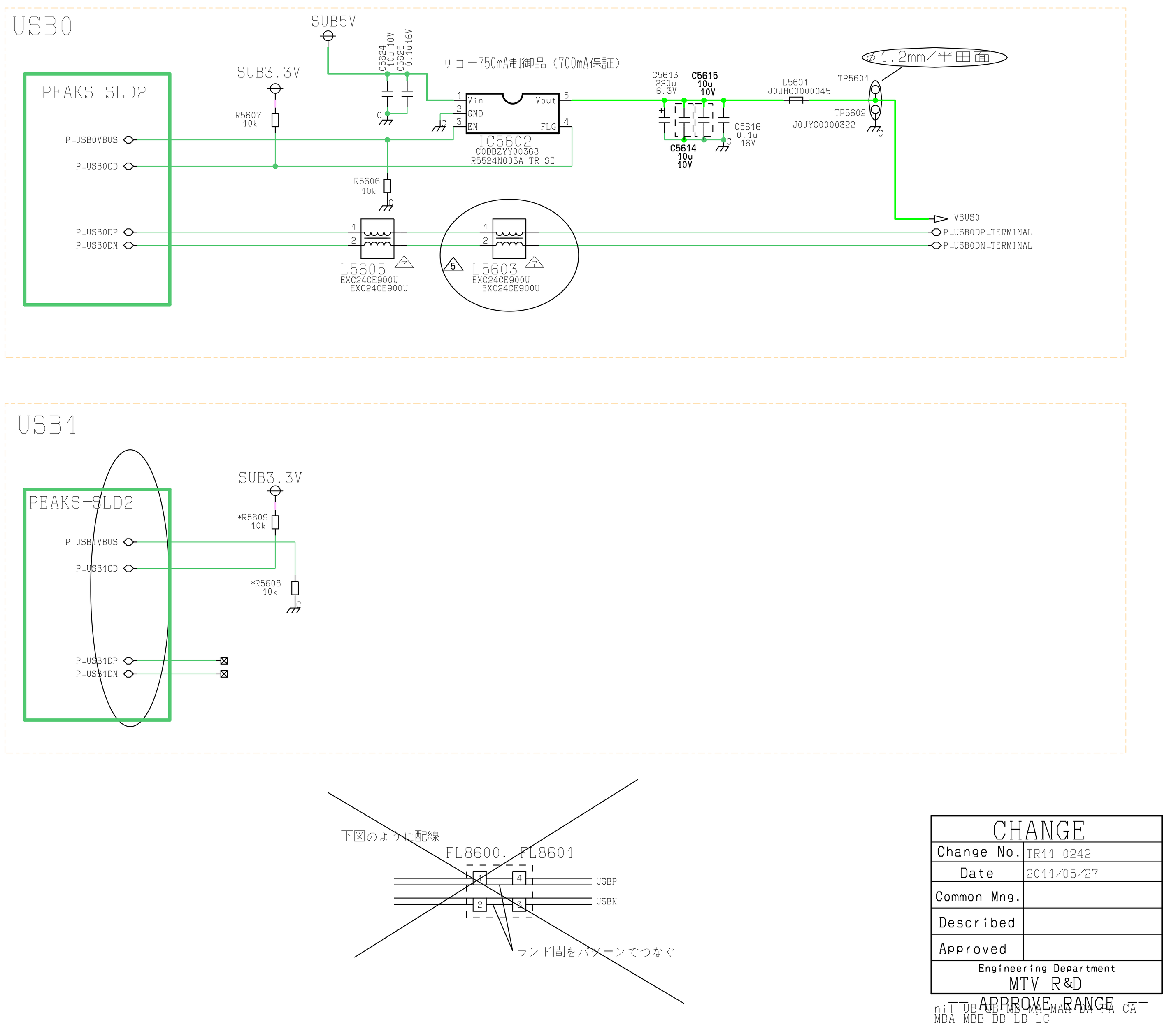
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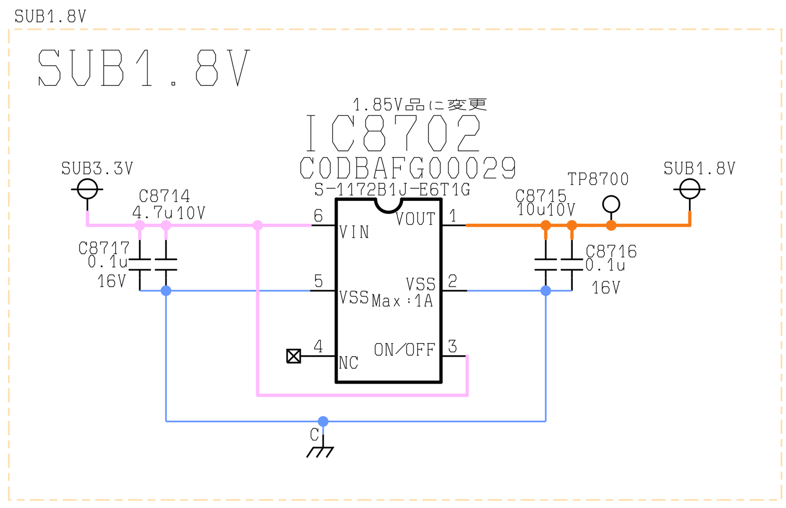
USB

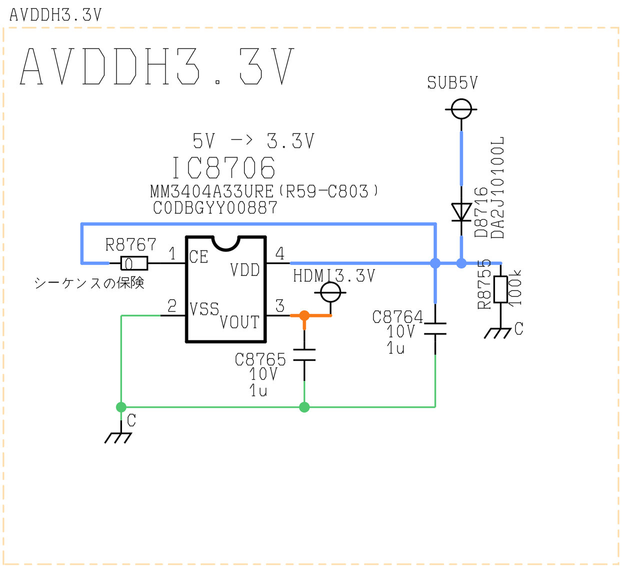
REF No. 5600 - 5649

[Net Variation]

USB2

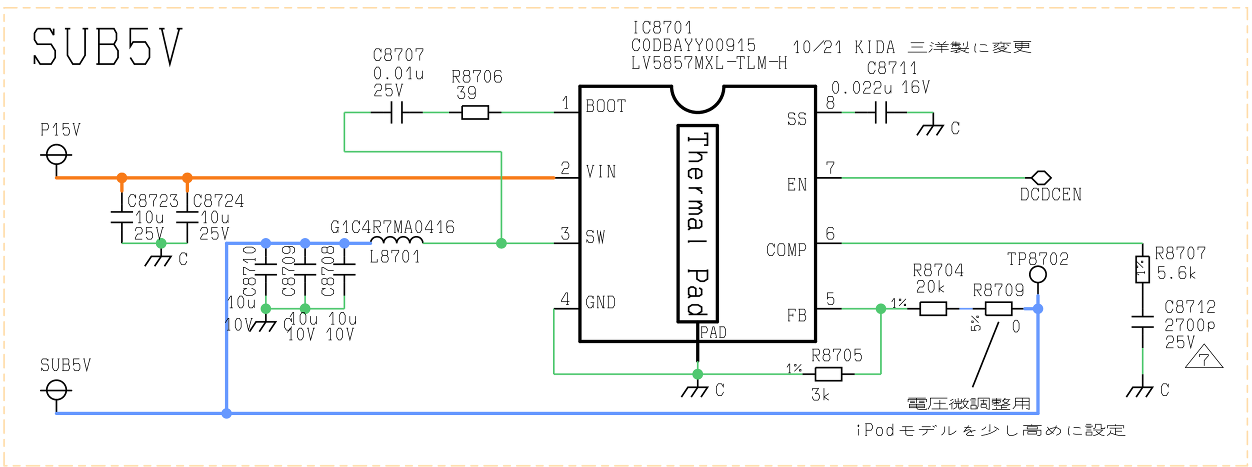


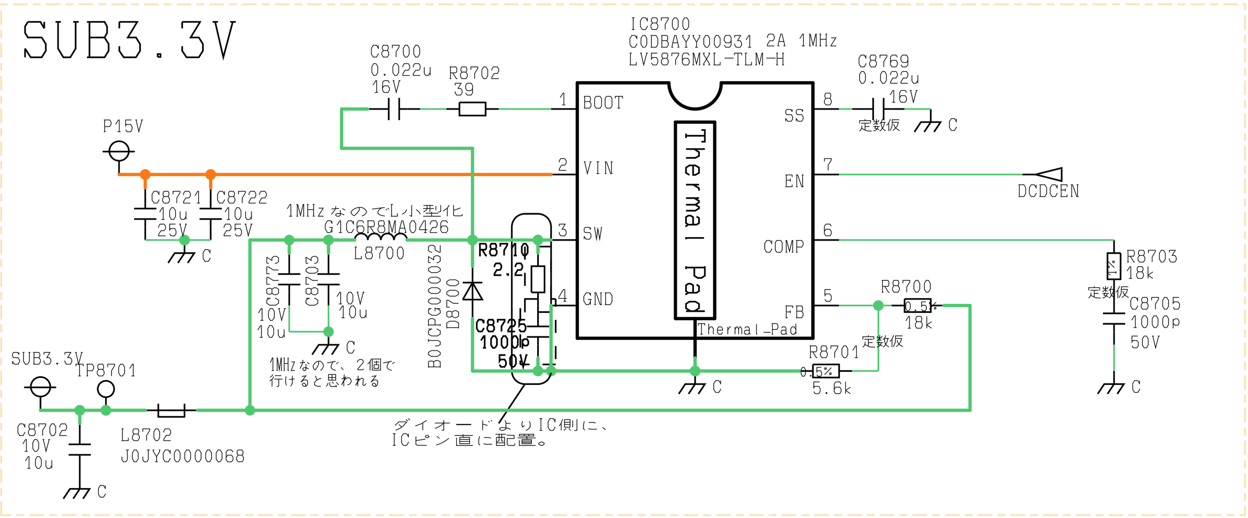


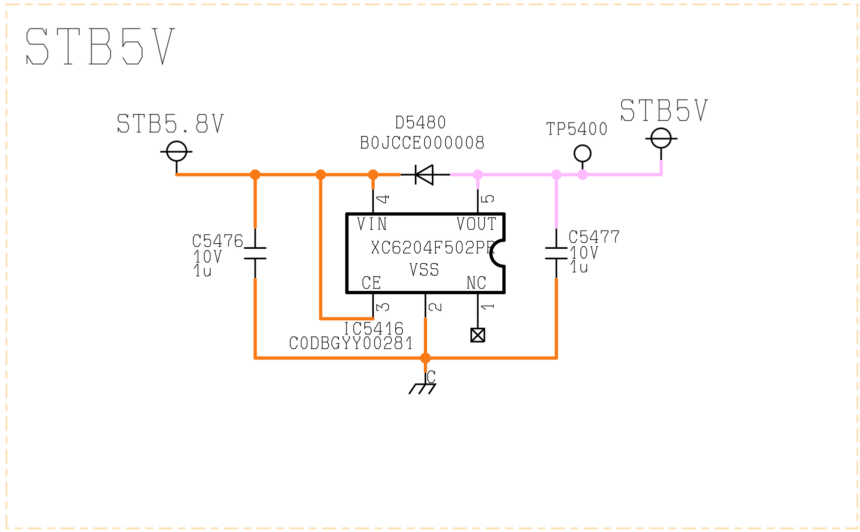


ODU15V

USA , ASIA はODU使用しない







CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	

Engineering Department
MTV R&D

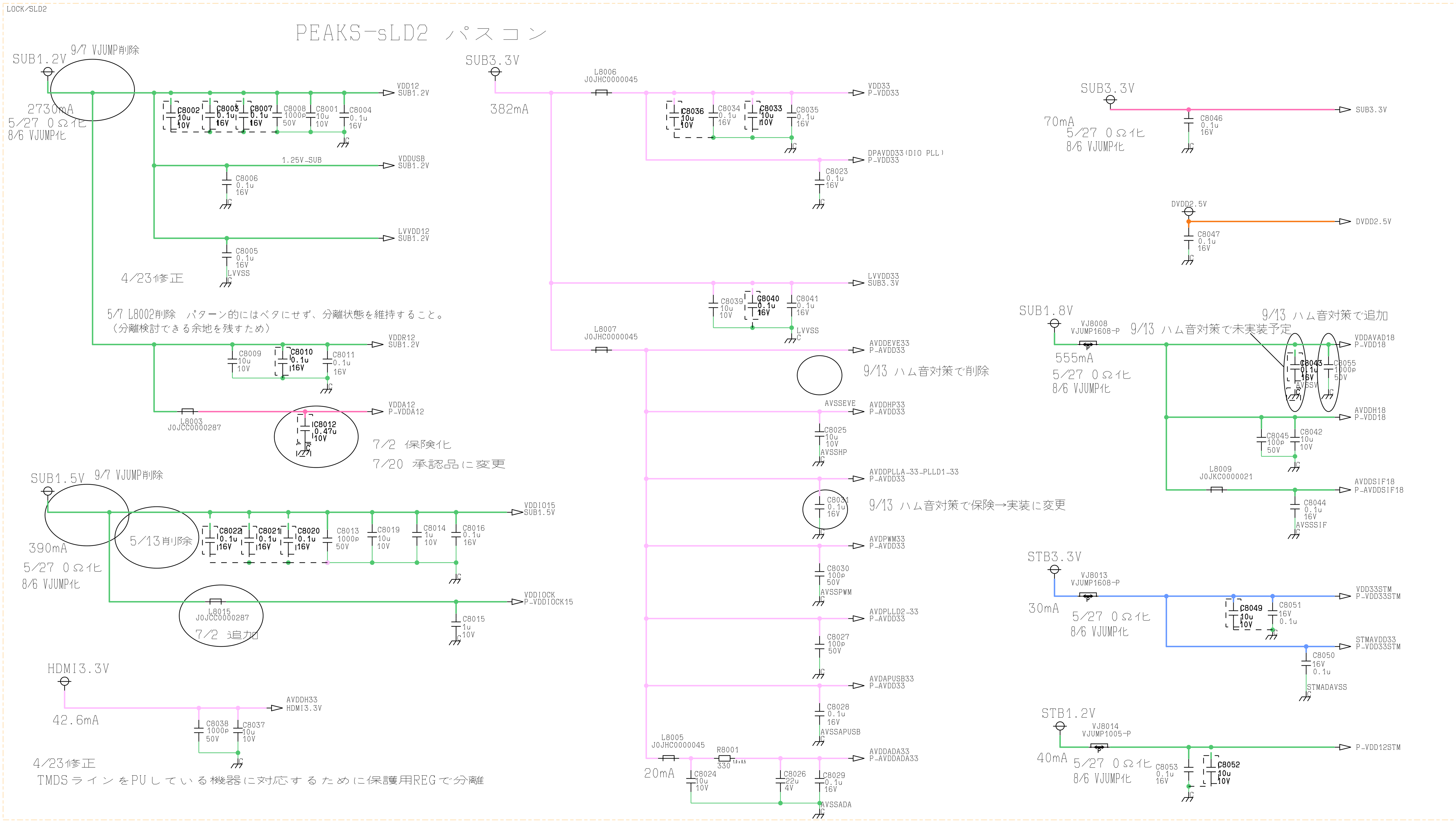
APPROVE RANGE

nil UB ... MA ... CA
MBA MBB DB LB LC

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

SHEET Common-Power
CRNo:8700

PLOT	11/06/01 /23-58-53	Kamariah
VARIATION	LB	
SHEET	TNP4G519_A.clr/701.sht	



CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	
Engineering Department MTV R&D	

-- APPROVE RANGE --

nil UB QB MB MA MAA DA PA CA
MBA MBB DB LB LC

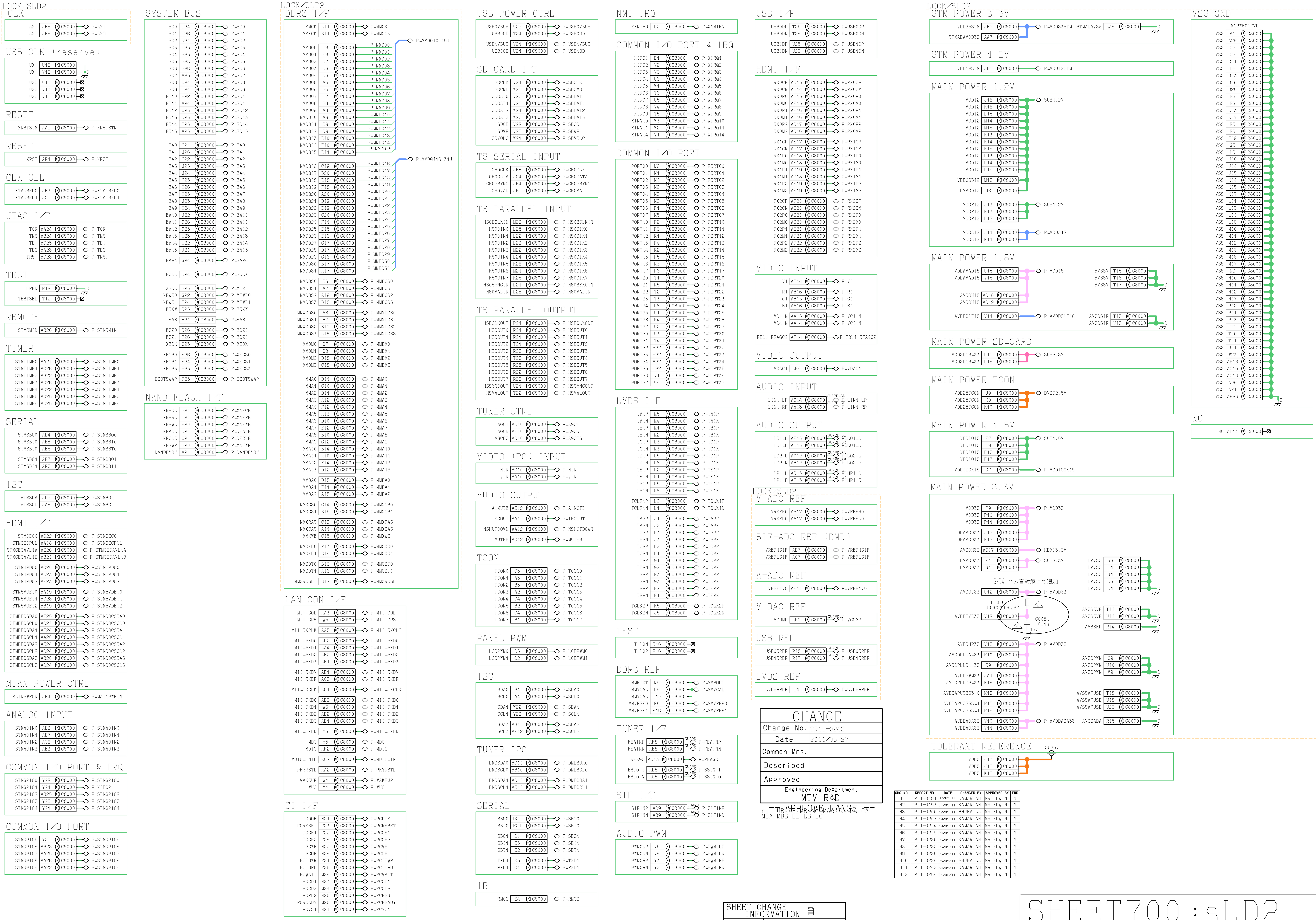
CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-701
SHEET Ver.	1.40
SHEET Mng.	yokoyama

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

SHEET701:sLD2 POWER
CRNo:8001 - 8099

PLOT 11/06/01 /23-58-23 Kamariah
VARIATION LB
SHEET TNP4G519_A.cir/700.sht



CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	
Engineering Department MTV R&D	

-- APPROVE RANGE --
nil UB QB MB MA MAA DA PA CA
MBA MBB DB LB LC

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-700
SHEET Ver.	1.20
SHEET Mng.	moriie

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

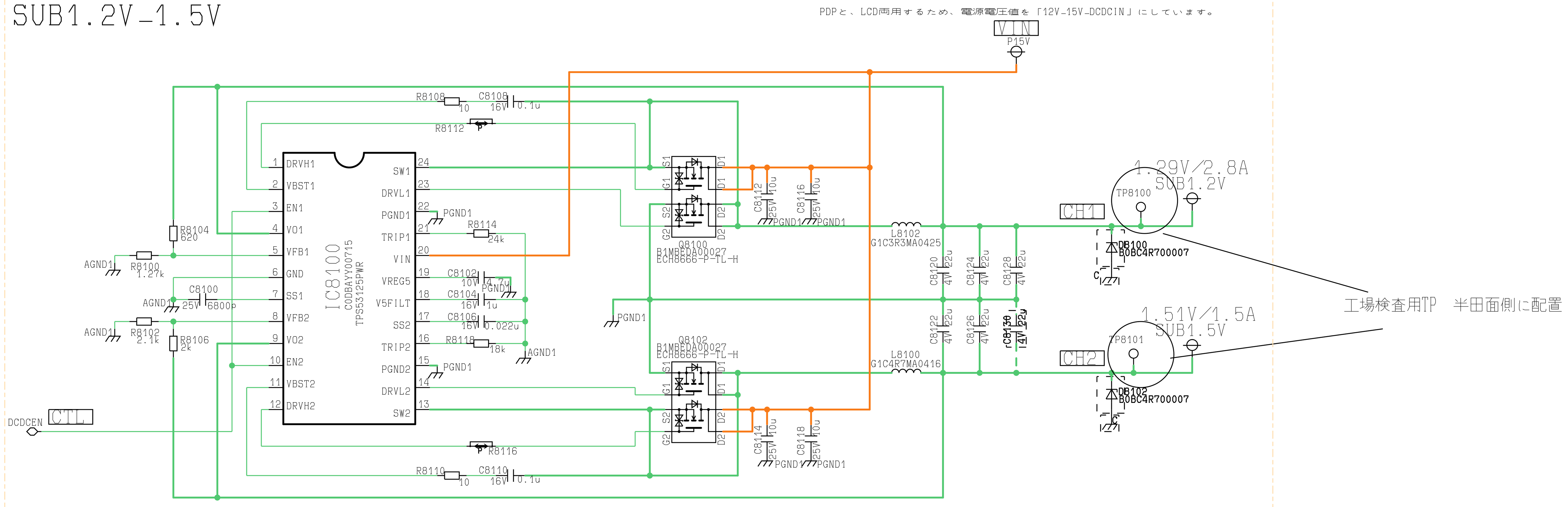
SHEET700 : sLD2
CRNo : 8000

PLOT	11/06/01 /23:59:28	Kamariah
VARIATION	LB	
SHEET	TNP4G519.A.cir/702.sht	

仮想モジュール回路

SUB1.2V-1.5V

PDPと、LCD両用するため、電源電圧値を「12V-15V_DCDCIN」にしています。



ANGD1とPGND1は出力コンデンサ付近で一点アース(ビア)

PGND1とCは2層目ベタで接続

過電流保護動作設定

出力	MAX	設定値		
1.5V	1.5A	2.6A	R8114	18kΩ
1.2V	2.8A	4A	R8118	24kΩ

CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	
Engineering Department MTV R&D	

-- APPROVE RANGE --

nil UB QB MB MA MAA DA PA CA MBA MBB DB LB LC

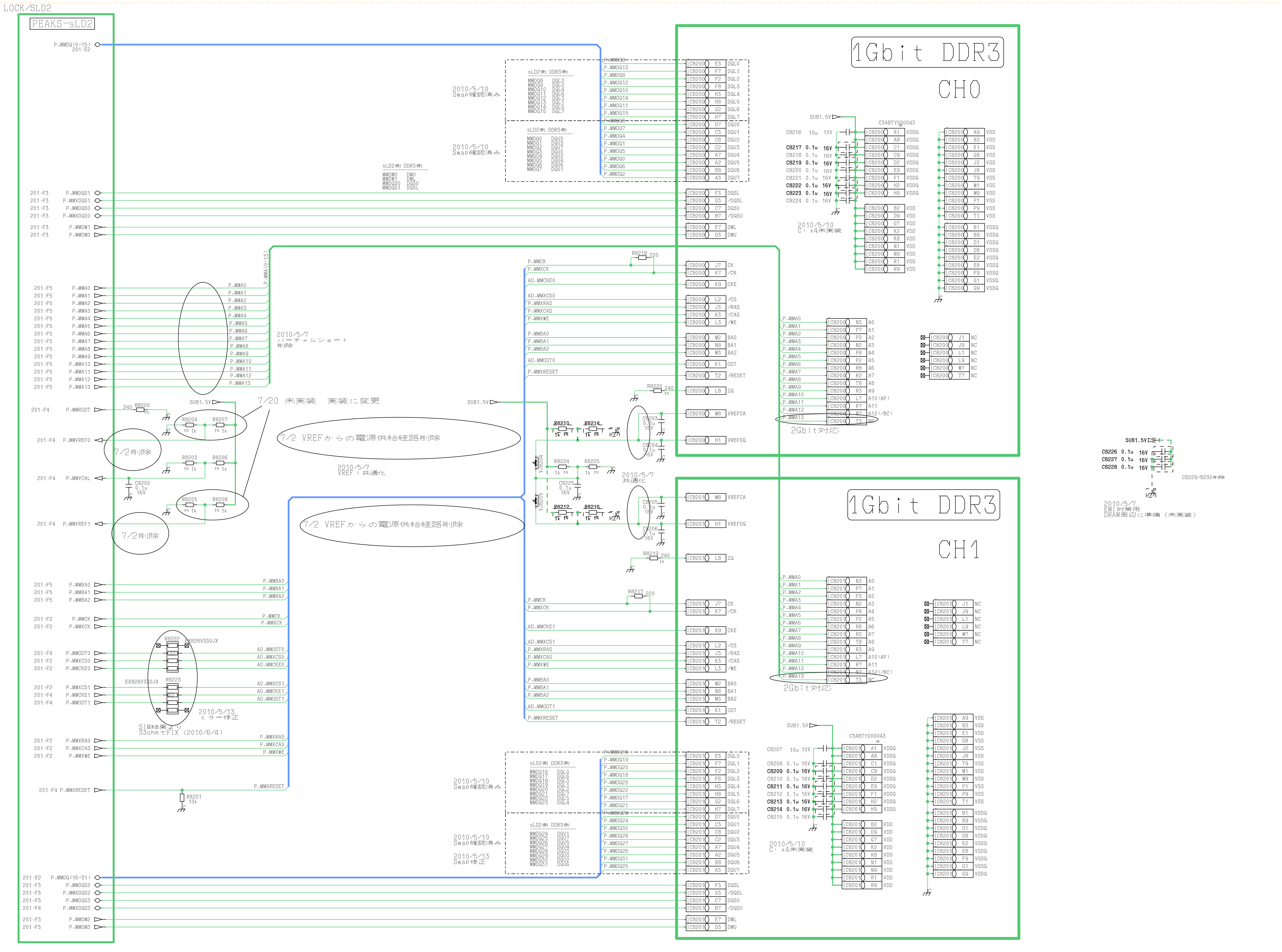
CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-702
SHEET Ver.	1.20
SHEET Mng.	fujimoto

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

SHEET702:sLD2 DC/DC
CRNo:8100 - 8199

PLOT	11/06/02 / 00:00:03	Kamariah
VARIATION	LB	
SHEET	TNP4G519.A.cir/703.sht	



CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N

CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	
Engineering Department MTV R&D	

-- APPROVE RANGE --

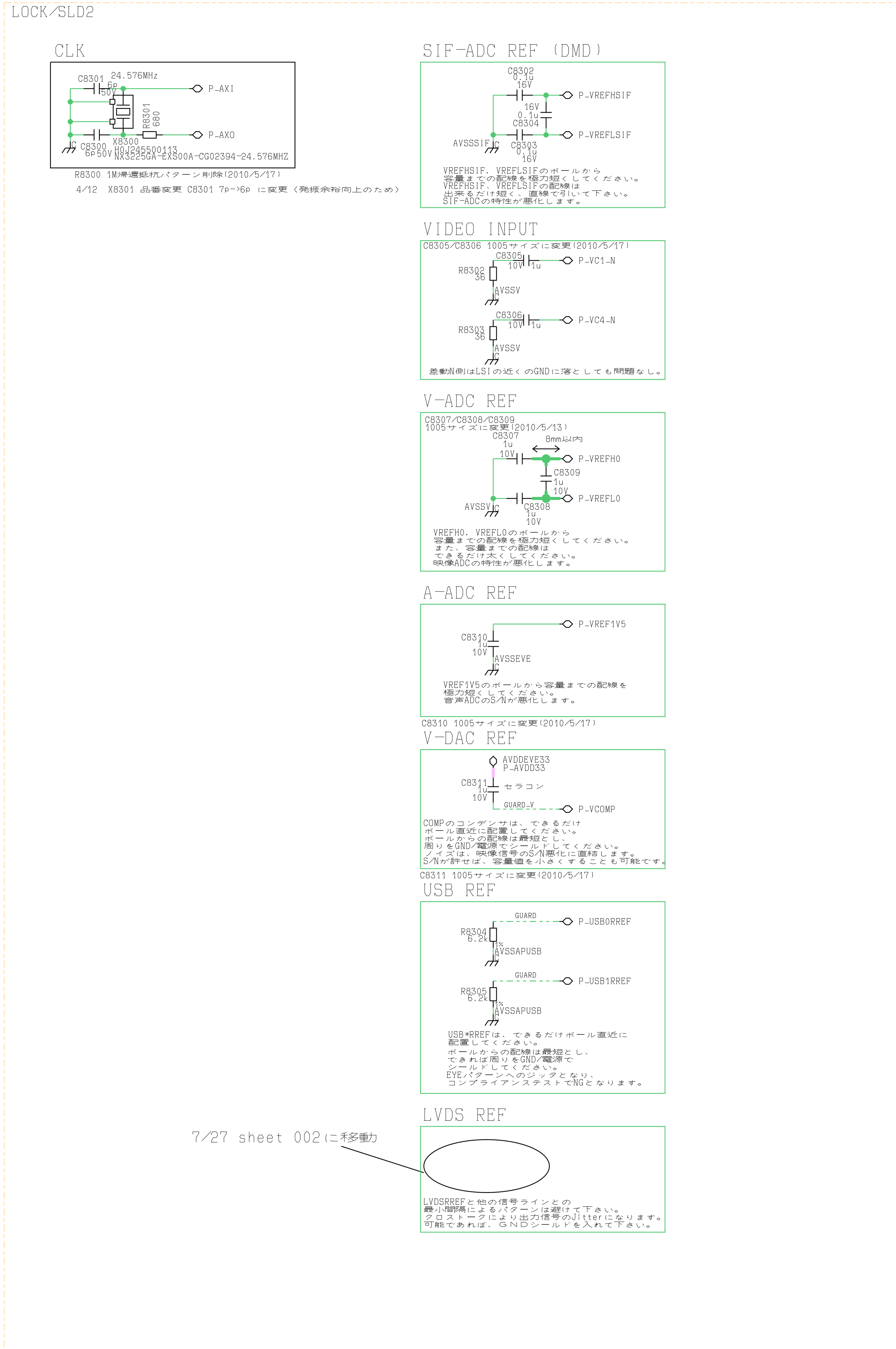
nil UB QB MB MA MAA DA PA CA MBA MBB DB LB LC

SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-703
SHEET Ver.	1.20
SHEET Mng.	hanafusa

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

SHEET703:sLD2 DDR3
CRNo:8200 - 8299

PLOT	11/06/02 /00:00:31	Kamariah
VARIATION	LB	
SHEET	TNP4G519.A.cir/704.sht	



CHANGE	
Change No.	TR11-0242
Date	2011/05/27
Common Mng.	
Described	
Approved	


Engineering Department
MTV R&D
APPROVE RANGE
MBA MBB DB LB LC

CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0191	07/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0193	07/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0200	12/05/11	SHUHAILA	MR EDWIN	N
H4	TR11-0207	19/05/11	KAMARIAH	MR EDWIN	N
H5	TR11-0214	19/05/11	KAMARIAH	MR EDWIN	N
H6	TR11-0219	20/05/11	KAMARIAH	MR EDWIN	N
H7	TR11-0230	25/05/11	KAMARIAH	MR EDWIN	N
H8	TR11-0232	25/05/11	KAMARIAH	MR EDWIN	N
H9	TR11-0235	26/05/11	KAMARIAH	MR EDWIN	N
H10	TR11-0229	25/05/11	SHUHAILA	MR EDWIN	N
H11	TR11-0242	30/05/11	KAMARIAH	MR EDWIN	N
H12	TR11-0254	01/06/11	KAMARIAH	MR EDWIN	N


SHEET CHANGE INFORMATION	
SHEET NO.	SLD2-704
SHEET Ver.	1.30
SHEET Mng.	morlie

FOR VIRTUAL-MODULE SHEET
*Don't delete!
*Don't change Sheet NO!

SHEET704:sLD2 DEST
CRNo:8300 - 8399



TNP4G508
P
6.3Vコンデンサ寿命の高温度化
HOT
COLD
ENG.RELEASE
Change No. REL02
Date 2011/07/28
Common Mng.
Described
Approved MTV APPROVED
Engineering Department
MTV R&D
-- APPROVE RANGE --
AE
OTHER PARTS for PCB Parts Number with OR Parts Number
PRINT TOOL Part No. TNP4G508-1
For PCB Parts Number with OR Parts Number
PCB NAME TNP4G508
CHASSIS KM14/KM10V/KM10VE
BOARD P
DESIGNED BY J.MIUNO
CHECKED BY K.BANDO
APPROVED BY K.KINOSHITA
CIRCUIT DRAWING MANAGER J.MIZUNO
CONFIDENTIAL
Until:31/12/2012
NOTE :-
THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.
TECH.REPORT UPDATED NO.
KM14-110
KM10V-076
KM10VE-052
PAVCKM
ASIA R&D CENTER
ELECT. DESIGN SECT.
ISSUED
ENGINEERING RELEASE
01st.AUGUST.2011
PLOT 11/07/27 /20:04:37 Suwaya
VARIATION AE
SHEET TNP4G508.P.cir/001.sht
ASIA R&D CENTER MATSUSHITA TELEVISION & NETWORK SYSTEMS CO.,(M) SDN.BHD. (170701-M)
APPROVED
CHECKED 3
CHECKED 2
CHECKED 1
DRAWN
CHASSIS NO.
KM14
KM10V
KM10VE
KM10W
BOARD
P
MODEL NO.
CT-L32C4X
CT-L32C4Y
NOTE : REFER TO THE DIFFERENTIAL TABLE FOR DETAILS



CIRCUIT INFORMATION

Only use for OR parts
Need both symbol.

OTHER PARTS for PCB Parts Number with OR Parts Number		CHGNo.	SAFE
PRINT TOOL Part No.			
*TNPA5378-2		△8	⚠
OR1			
OR2			
OR3			

For PCB Parts Number with OR Parts Number

PCB NAME	TNPA5378
PRINT TOOL NO.	Input to Special Other part
COMB.PCB PARENT NO.	
CHASSIS	KM11
BOARD	KA
DESIGNED BY	S.ARIKAWA
CHECKED BY	A.TACHIBANA
APPROVED BY	T.HATANO
CIRCUIT DRAWING MANAGER	D.TAKABATAKE

ENG.RELEASE

Change No.	REL02
Date	2011/07/28
Common Mng.	
Described	
Approved	MTV APPROVED
Engineering Department MTV R&D	

-- APPROVE RANGE --

BV

APPLIED MODEL

SUB ASSEMBLY PART NO.	MODEL NO.	PLAN NO.	ARRANGEMENT DATE	PRODUCTION START	CHG NO.
TOP TNPA5378BA	KX-L32E3H	LYUH	21/10/10	21/02/11	
TNPA5378BA	KX-L32E3A	MGUA	27/10/10	24/03/11	
TNPA5378BA	KX-L32E3Z	MEUZ	27/10/10	24/03/11	
TNPA5378BA	KX-L32U30H	MBUH	27/10/10	11/03/11	
TNPA5378BA	KX-L32U30S	LXUS	27/10/10	11/03/11	
TNPA5378BA	KX-L32U30K	LVUK	27/10/10	14/03/11	
TNPA5378BA	KX-L32U30X	MBUX	27/10/10	14/03/11	
TNPA5378BA	KX-L37U30K	LUUK	27/10/10	16/03/11	
TNPA5378BA	KX-L37U30X	MAUX	27/10/10	16/03/11	
TNPA5378BA	KX-L37U30H	MAUH	27/10/10	14/03/11	
TNPA5378BA	KX-L37U30S	MKUS	27/10/10	14/03/11	
TNPA5378BA	KX-L32C30H	MDUH	27/10/10	25/02/11	
TNPA5378BA	KX-L32C30S	MDUS	27/10/10	25/02/11	
TNPA5378BA	KX-L32C3S	MEUS	27/10/10	28/02/11	
TNPA5378BA	KX-L32C30K	LZUK	27/10/10	25/02/11	
TNPA5378BA	KX-L32C30X	MGUX	27/10/10	25/02/11	
TNPA5378BA	KX-L32C3K	MBUK	27/10/10	28/02/11	
TNPA5378BA	KX-L32C3X	MJUX	27/10/10	28/02/11	
TNPA5378BA	KX-L32C30G	LMUG	28/10/10	31/03/11	
TNPA5378BA	KX-L32C3G	LPUG	28/10/10	01/04/11	
TNPA5378BA	KX-L32C30M	MBUM	28/10/10	30/03/11	
TNPA5378BA	KX-L32C3M	MDUM	28/10/10	31/03/11	
TNPA5378BA	KX-L32C30T	LXUT	28/10/10	30/03/11	
TNPA5378BA	KX-L32C3T	LZUT	28/10/10	31/03/11	
TNPA5378BA	KX-L32C30A	MMUA	28/10/10	04/04/11	
TNPA5378BA	KX-L32C30Z	MKUZ	28/10/10	04/04/11	
TNPA5378BA	KX-L32U30A	NQUA	29/10/10	11/04/11	
TNPA5378BA	KX-L32U30Z	MNUZ	29/10/10	11/04/11	
TNPA5378BA	KX-L32U30M	LWUM	29/10/10	13/04/11	
TNPA5378BA	KX-L32U30T	LSUT	29/10/10	13/04/11	
TNPA5378BA	KX-L32U30G	LGUG	29/10/10	11/03/11	
TNPA5378BA	KX-L37U30M	LVUM	29/10/10	14/04/11	
TNPA5378BA	KX-L37U30T	MCUT	29/10/10	14/04/11	
TNPA5378BA	KX-L37U30G	LFUG	29/10/10	14/03/11	
TNPA5378BA	KX-L32X30K	LYUK	01/11/10	09/02/11	
TNPA5378BA	KX-L32X30X	MEUX	01/11/10	09/02/11	
TNPA5378BA	KX-L32X30M	MAUM	01/11/10	08/03/11	
TNPA5378BA	KX-L32X30T	LVUT	01/11/10	09/03/11	
TNPA5378BA	KX-L32C30R	MRUR	01/11/10	01/04/11	
TNPA5378BA	KX-L32E3M	LZUM	03/11/10	25/03/11	
TNPA5378BA	KX-L32E3R	MPUR	03/11/10	25/03/11	
TNPA5378BA	KX-L42E3H	LWUH	09/11/10	04/03/11	
TNPA5378BA	KX-L42E3S	LZUS	09/11/10	04/03/11	
TNPA5378BA	KX-L42E3A	MFUA	09/11/10	04/04/11	
TNPA5378BA	KX-L42E3Z	MDUZ	09/11/10	04/04/11	
TNPA5378BA	KX-L42E3K	LXUK	09/11/10	04/03/11	
TNPA5378BA	KX-L42E3X	MDUX	09/11/10	04/03/11	
TNPA5378BA	KX-L42E3G	LJUG	09/11/10	04/03/11	
TNPA5378BA	KX-L42E3R	MNUR	09/11/10	04/04/11	
TNPA5378BH	KX-L42U30S	LWUS	11/11/10	24/03/11	△4
TNPA5378BH	KX-L42U30A	NPUA	11/11/10	22/04/11	△4
TNPA5378BH	KX-L42U30Z	MMUZ	11/11/10	22/04/11	△4
TNPA5378BH	KX-L42U30G	LEUG	11/11/10	24/03/11	△4
TNPA5378BH	KX-L42U30H	LZUH	11/11/10	24/03/11	△4
TNPA5378BH	KX-L42U30K	LTUK	11/11/10	24/03/11	△4
TNPA5378BH	KX-L42U30M	LUUM	11/11/10	15/04/11	△4
TNPA5378BH	KX-L42U30X	LZUX	11/11/10	24/03/11	△4
TNPA5378BH	KX-L42U30T	LRUT	11/11/10	15/04/11	△4
TNPA5378BH	KX-L42U30R	MJUR	11/11/10	14/04/11	△4
TNPA5378BH	KX-L32U30R	MKUR	24/11/10	13/04/11	△4
TNPA5378BA	KX-LR32C3	MEUR	28/11/10	30/03/11	
TNPA5378BA	KX-L32X35A	MHUA	03/12/10	06/06/11	
TNPA5378BA	KX-L32X35Z	MFUZ	03/12/10	06/06/11	
TNPA5378BC	KV-L32X30V	LSUV	03/12/10	18/03/11	
TNPA5378BB	CC-L32C30C	NPUC	08/12/10	24/03/11	
TNPA5378BD	TH-L32C30W	LPUW	08/12/10	06/05/11	
TNPA5378BD	TH-L42E3W	MEUW	08/12/10	06/05/11	
TNPA5378BD	TH-L32U30W	LMUW	09/12/10	06/05/11	
TNPA5378BD	TH-L37U30W	LNUW	09/12/10	06/05/11	
TNPA5378BE	KE-L32C30D	LXUD	13/12/10	24/03/11	
TNPA5378BE	KE-L32C3D	LZUD	13/12/10	25/03/11	
TNPA5378BE	KE-L32X30D	LVUD	13/12/10	24/03/11	
TNPA5378BC	KV-L32C30V	LUUV	13/12/10	24/03/11	
TNPA5378BC	KV-L32C3V	LWUV	13/12/10	25/03/11	
TNPA5378BE	KE-L32U30D	LSUD	13/12/10	15/04/11	
TNPA5378BC	KV-L32U30V	LPUV	13/12/10	14/04/11	
TNPA5378BC	KV-L37U30V	LNUV	13/12/10	15/04/11	
TNPA5378BA	KX-L42E3T	LUUT	13/12/10	04/04/11	
TNPA5378BE	KE-L42E3D	LUUD	13/12/10	01/04/11	
TNPA5378BC	KV-L42E3V	LRUV	13/12/10	01/04/11	
TNPA5378BB	CC-L42E3C	NLUC	13/12/10	01/04/11	
TNPA5378BA	KX-L19X35A	MJUA	22/12/10	07/06/11	
TNPA5378BA	KX-L19X35Z	MGUZ	22/12/10	07/06/11	
TNPA5378BA	KX-L19X30A	MLUA	22/12/10	31/05/11	
TNPA5378BA	KX-L19X30A	MJUZ	22/12/10	31/05/11	
TNPA5378BA	KX-L19X30H	MJUH	22/12/10	22/04/11	
TNPA5378BE	KE-L37U30D	MDUD	22/12/10	14/04/11	
TNPA5378BF	CB-L32U30B	QGUB	22/12/10	26/05/11	
TNPA5378BM	CB-L42U30B	QHUB	22/12/10	18/05/11	△4
TNPA5378BM	CB-L42U30P	NCUP	28/12/10	23/05/11	△4
TNPA5378BL	KE-L42U30D	LRUD	28/12/10	18/04/11	△4
TNPA5378BK	KV-L42U30V	LMUV	28/12/10	18/04/11	△4
TNPA5378BF	CB-L32C30B	QFUB	31/12/10	23/05/11	
TNPA5378BF	CB-L32C30P	NDUP	31/12/10	23/05/11	
TNPA5378BG	TC-L32C30A	NUUA	31/12/10	23/05/11	△3
TNPA5378BA	KGX-L32X30E	QDUE	11/03/11	31/05/11	
TNPA5378BA	KGX-L32C3E	RSUE	24/03/11	17/05/11	
TNPA5378BB	CC-L32X30C	NMUC	07/01/11	01/06/11	
TNPA5378BA	KGX-L37U30E	RUUE	ACTUAL ARRG. NOT YET (CRAETE FOR H/D 1)		
TNPA5378BH	KGX-L42U30E	RTUE	ACTUAL ARRG. NOT YET (CRAETE FOR H/D 1)		△4
TNPA5378BA	KGX-L42E3E	RVUE	18/04/11	05/06/11	
TNPA5378BA	KX-LR32U3	LXUR	18/01/11	29/04/11	
TNPA5378BA	KX-LR37U3	LWUR	18/01/11	02/05/11	
TNPA5378BH	KX-LR42U3	LVUR	18/01/11	06/05/11	△4
TNPA5378BG	TC-L32X30A	NTUA	21/01/11	23/05/11	
TNPA5378BN	TC-L42U30A	NSUA	21/01/11	23/05/11	△4
TNPA5378BA	KX-L24C3K	MDUK	01/02/11	05/05/11	
TNPA5378BA	KX-L24C3S	MFUS	01/02/11	05/05/11	
TNPA5378BA	KX-L24C3X	MKUX	01/02/11	05/05/11	
TNPA5378BA	KX-L24C3M	MEUM	01/02/11	05/05/11	
TNPA5378BA	KX-L24C3G	LRUG	01/02/11	05/05/11	
TNPA5378BA	KX-L24C3T	MAUT	01/02/11	06/06/11	
TNPA5378BA	KX-LR32U31	PFUR	17/02/11	29/04/11	
TNPA5378BA	KX-L32C38K	MZUK	08/02/11	28/02/11	
TNPA5378BH	KX-L42U38K	MXUK	08/02/11	24/03/11	△4
TNPA5378BA	KX-L32C39K	NAUK	11/02/11	06/04/11	
TNPA5378BH	KX-L42U39K	MYUK	11/02/11	13/04/11	△4
TNPA5378BJ	CC-L42U30C	NKUC	16/02/11	03/06/11	
TNPA5378BE	KE-L24C3D	MBUD	15/03/11	02/06/11	
TNPA5378BB	CC-L32C3C	NQUC	15/03/11	14/06/11	
TNPA5378BB	CC-L32CH3C	NVUC	15/03/11	14/06/11	
TNPA5378BC	KV-L37DT30V	LKUV	11/03/11	13/05/11	
TNPA5378BE	KE-L42E30D	LTUD	11/03/11	13/05/11	
TNPA5378BA	TX-LR32C3A	PQUR	23/03/11	08/08/11	
TNPA5378BA	KX-L32C33X	NGUX	12/04/11	21/07/11	
TNPA5378BA	KX-L32C33G	NGUG	25/04/11	16/08/11	
TNPA5378BR	KX-L32C4K	NDUK	19/04/11	16/08/11	△7
TNPA5378BR	KX-L32C4X	NHUX	19/04/11	16/08/11	△7
TNPA5378BB	CC-L32C35C	NNUC	26/04/11	18/08/11	
TNPA5378BE	KE-L32C33D	MXUD	06/05/11	18/08/11	
TNPA5378BC	KV-L32C33V	NAUV	06/05/11	18/08/11	
TNPA5378BA	KX-L32X33X	NFUX	10/05/11	15/08/11	
TNPA5378BV	KL-32LX44	QMUU	11/05/11	12/09/11	△9
TNPA5378BA	KX-L32C4S	NBUS	11/05/11	05/09/11	
TNPA5378BR	KX-L32C4G	NHUG	11/05/11	05/09/11	△10
TNPA5378BA	TX-LR32U3A	PRUR	20/05/11	08/10/11	
TNPA5378BA	TX-LR32U31A	PSUR	20/05/11	08/10/11	
TNPA5378BR	KX-L32C4T	MXUT	19/05/11	21/09/11	△7
TNPA5378BR	KX-L32C4M	NCUM	19/05/11	21/09/11	△7
TNPA5378BR	KX-L32C4RA	LDUQ	19/05/11	21/09/11	△7
TNPA5378BS	KE-L32C4D	MYUD	19/05/11	22/09/11	△7
TNPA5378BT	KV-L32C4V	NBUV	19/05/11	22/09/11	△7
TNPA5378BU	CC-L32C4C	PLUC	19/05/11	22/09/11	△7
TNPA5378BU	CC-L32CH4C	PMUC	19/05/11	22/09/11	△7
TNPA5378BS	KE-L24C31D	MZUD	23/05/11	05/09/11	△7
TNPA5378BA	KX-L32X33G	NFUG	26/05/11	22/08/11	
TNPA5378BA	KX-L32X33T	MVUT	26/05/11	22/08/11	
TNPA5378BE	KE-L32X33D	MWUD	26/05/11	22/08/11	
TNPA5378BE	KE-L32E3D	NAUD	27/05/11	05/08/11	
TNPA5378BV	CT-L32C4X	NWUX	03/06/11	06/10/11	△9
TNPA5378BV	CT-L32C4Y	MGUL	03/06/11	06/10/11	△9
TNPA5378BD	TH-L32C40W	MMUW	21/06/11	03/10/11	

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Until :31/12/2012

NOTE :-
THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

TECH.REPORT UPDATED NO.
KM11-***

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ELECT. DESIGN SECT.
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ENGINEERING RELEASE
01st.AUGUST.2011

PLOT	11/07/27 /20:03:32	Suwaya
VARIATION	BV	
SHEET	TNPA5378.KA.cir/001.sht	

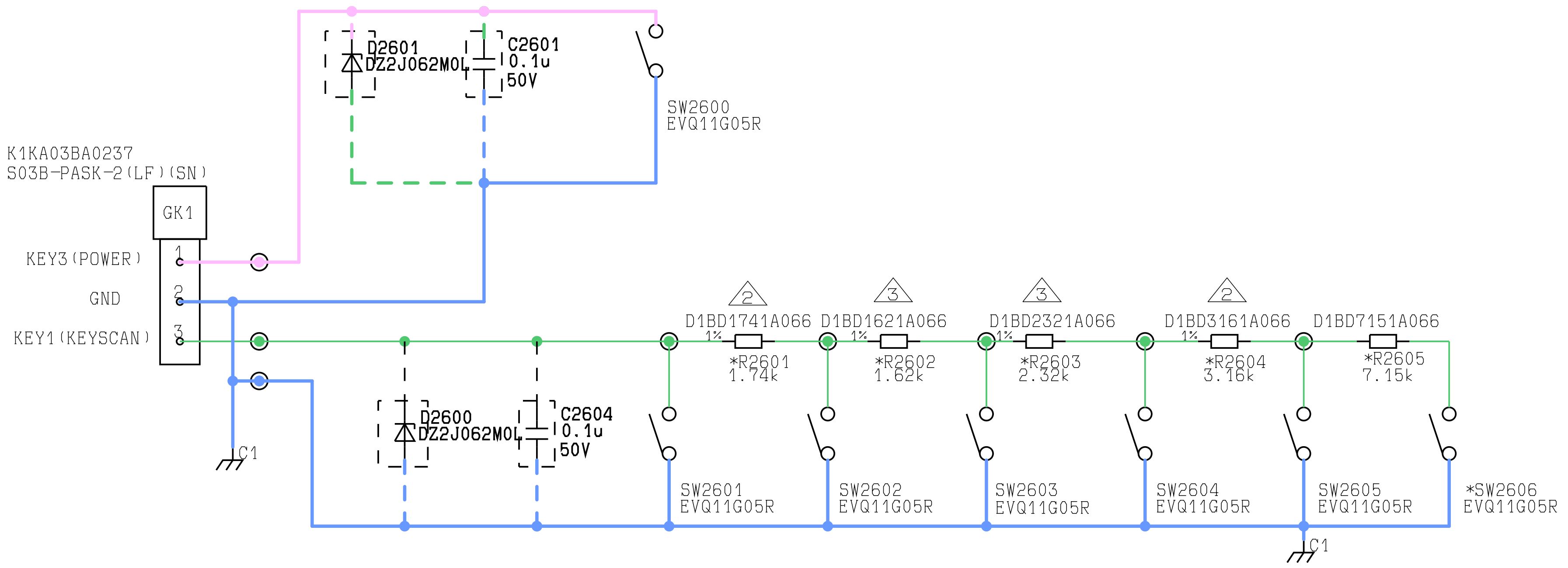
ASIA R&D CENTER MATSUSHITA TELEVISION & NETWORK SYSTEMS CO.,(M) SDN.BHD. (170701-M)					CHASSIS NO.	BOARD	MODEL NO.
APPROVED	CHECKED 3	CHECKED 2	CHECKED 1	DRAWN	KM10/W KM11/E KM10E KM12 LA18 KM10A KM14 KM10L/V	KA	CT-L32C4X CT-L32C4Y

NOTE : REFER TO THE DIFFERENTIAL TABLE FOR DETAILS

CRNo. : 2600～2699

電源SW回路については2650以降を使用
（キーコンパネと電源ＳＷ分離時にCRNo.変更の必要不要となるため）

GK



APPLIED MODEL

SUB ASSEMBLY PART NO.	MODEL NO.	PLAN NO.	ARRANGEMENT DATE	PRODUCTION START	CHG NO.	
TOP TNP4G514AA	KL-32LX44	QMUU	11/05/11	12/09/11	△1	KM10V
TNP4G514AB	KX-L32C4S	NBUS	11/05/11	05/09/11	△1	KM10V
TNP4G514AE	KX-L32C4G	NHUG	11/05/11	05/09/11	△5	KM10V
TNP4G514AC	TX-L32C4B	QZUB	12/05/11	29/09/11	△1	KM10VE
TNP4G514AC	TX-L32C4E	SBUE	12/05/11	29/09/11	△1	KM10VE
~~TNP4G514AC~~	~~TX-L32C4XE~~	~~SDUE~~	~~12/05/11~~	~~29/09/11~~	~~△1~~	~~KM10VE~~
TNP4G514AE	KX-L32C4K	NDUK	19/04/11	16/08/11	△2	KM14
TNP4G514AE	KX-L32C4X	NHUX	19/04/11	16/08/11	△2	KM14
TNP4G514AE	KX-L32C4T	MXUT	19/05/11	21/09/11	△2	KM14
TNP4G514AE	KX-L32C4M	NCUM	19/05/11	21/09/11	△2	KM14
TNP4G514AE	KX-L32C4RA	LDUQ	19/05/11	21/09/11	△2	KM14
TNP4G514AF	KE-L32C4D	MYUD	19/05/11	22/09/11	△2	KM14
TNP4G514AG	KV-L32C4V	NBUV	19/05/11	22/09/11	△2	KM14
TNP4G514AH	CC-L32C4C	PLUC	19/05/11	22/09/11	△2	KM14
TNP4G514AH	CC-L32CH4C	PMUC	19/05/11	22/09/11	△2	KM14
TNP4G514AD	CT-L32C4X	NWUX	03/06/11	06/10/11		KM10V
TNP4G514AD	CT-L32C4Y	MGUL	03/06/11	06/10/11		KM10V
TNP4G514AJ	TH-L32C40W	MMUW	21/06/11	03/10/11		KM10W

KEY_REFERENCE (PARTS PATTERN) = NA MODELS

GK1	SW2600		SW2606	SW2605	SW2601	SW2602	SW2603	SW2604
	POWER	NA	CH +	CH −	INPUT	MENU	Vol −	Vol +

KEY_REFERENCE (PARTS PATTERN) = ASIA AND EURO MODELS

GK1	SW2600		SW2606	SW2605	SW2601	SW2602	SW2603	SW2604
	POWER	ASIA&EURO		F	AV	TV	Vol−/CH−	Vol+/CH+

OTHER PARTS

OTHER PARTS for Pb Free (SINGLE PCB)				
REFNo.	PARTS NO.	CHGNo.	SAFE	
	T2KD01200			PB FREE DIP SOLDER
	T2KA02610			PB FREE SOLDER
	T8EJ007			FLUX
	VOF-1100			THINNER
	T8C12022L-1			BOND FOR CHIP
*	TKP4GA08202			SIDE AV BRACKET
*	XTV3+12JFJ			SCREW (GK3)

PCB NAME	TNP4G514
PRINT TOOL NO.	TNP4G514-1 △
COMB.PCB PARENT NO.	
CHASSIS	
BOARD	GK
DESIGNED BY	OYAMA
CHECKED BY	OYAMA
APPROVED BY	TAKABA
CIRCUIT DRAWING MANAGER	OYAMA

ENG.RELEASE	
Change No.	REL02
Date	2011/07/28
Common Mng.	
Described	
Approved	MTV APPROVED
Engineering Department MTV R&D	

-- APPROVE RANGE --

AD

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TECH.REPORT UPDATED NO.
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NOTE :-
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CHG NO.	REPORT NO.	DATE	CHANGED BY	APPROVED BY	END
H1	TR11-0231	25/05/11	KAMARIAH	MR EDWIN	N
H2	TR11-0239	27/05/11	KAMARIAH	MR EDWIN	N
H3	TR11-0296	24/06/11	KAMARIAH	MR EDWIN	N
H4	TR11-0362	22/07/11	SUWAYA	MR EDWIN	N
H5	TD11-0385	27/07/11	SHUHAILA	MR EDWIN	N

PLOT 11/07/27 / 20:01:22 Suwaya
VARIATION AD
SHEET TNP4G514.GK.cir/001.sht

ASIA R&D CENTER MATSUSHITA TELEVISION & NETWORK SYSTEMS CO.,(M) SDN.BHD. (170701-M)					CHASSIS NO.	BOARD	MODEL NO.
APPROVED	CHECKED 3	CHECKED 2	CHECKED 1	DRAWN	KM14 KM10V KM10VE KM10W	GK	CT-L32C4X CT-L32C4Y

NOTE : REFER TO THE DIFFERENTIAL TABLE FOR DETAILS

Panasonic